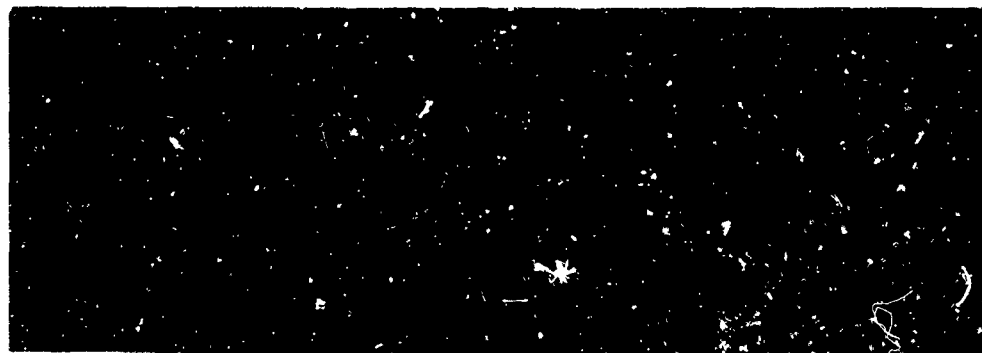


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APPENDIX C

COMPREHENSIVE BIBLIOGRAPHY
FOR
MECHANISM OF MICROBIOLOGICAL CONTAMINATION OF JET FUEL
AND
DEVELOPMENT OF TECHNIQUES FOR DETECTION OF
MICROBIOLOGICAL CONTAMINATION

Gordon C. Blanchard

Appendix to Second Quarterly Progress Report

1 June 1963 -- 1 September 1963

Aero Propulsion Laboratory
Research and Technology Division
Wright-Patterson Air Force Base, Ohio

Contract No. AF 33 (657)-9186

Research Division
Melpar, Inc.
3000 Arlington Boulevard
Falls Church, Virginia

1. Abel, W. A., "Corrosion in Mixed Fortifying Acid Storage Tanks. Use of Paraffin Oil to Reduce Acid Fume Attack." Final Rept. pt. C (Badger Ordnance Works, Baraboo, Wis., Tech rept. 152).; AD-111-372
2. Acampora, M. and I. Geld, "Research and Development of Tank Coatings Applied after Chemical Descaling," PB Rept. 140 507, 13 pp., From U. S. Govt. Research Rpts. 32, 218 (1959).
3. Acharya, C. N., Preparation of Fuel Gas and Manure by Anaerobic Fermentation of Organic Materials. Indian Council. Agric. Res. Ser. 15. 1-58. Illus. 1961, 19607
4. Ackerman, J. I., Separation Process, U. S. Patent 2, 653,147, Sept. 22, 1953, (to Phillips Petroleum Co.).
5. Aczel, T., K. W. Bartz, H. C. Lumpkin, and F. C. Stehling, Characterization of Aromatics in Light Catalytic Cycle Stock by Spectrometric Technique." "Compound Types of the General Formula $C_n H_{2n-12}$ and $C_n H_{2n-14}$." Anal. Chem. 34 (13): 1821-1828, 1962.
6. Adams, M. E. and J. R. Postgate, A New Sulphate-Reducing Vibrio, J. Gen. Microbiol. 20, 252-257 (1959).
7. Adams, R. S., Jr. and R. Ellis, Jr., "Some Physical and Chemical Changes in the Soil Brought about by Saturation With Natural Gas," reprinted from Soil Science Society of America Proceedings, Vol. 24, No. 1, (January - February 1960.), 41-44.
8. Adrian, R. C., H. C. Edgington, and F. E. Miller, "Prototype Propellant-Testing System. Phase III. Design and Construction of Contaminant-Introduction System." Final rept. (Aerojet - General Corp., Azusa, Calif.) 13 July 62 - 31 Jan. 63. Apr. 63, IV. incl. illus. tables, 3 refs. (Rept. No. 2486) (Contract AF 04(611) 96).; AD-401-690
9. Adrian, R. C., and H. C. Edgington. "Prototype Propellant - Testing System. Phases I and II - Feasibility Study and Preliminary Design." Final rept., 14 May - 30 Nov. 62, Feb. 63, 119 p. encl. illus. tables, 117 refs. (Rept. No. LAF-12-8), Aerojet - General Corp., Azusa, Calif. AD-297-040
10. Aeronautical Materials Lab., "The Effect of Dimetecote No. 3 Coating on Jet Engine Alloys by Contamination of Aircraft Fuels." 24 Feb. 59 (Rept. No. MAMC-AML-AE 4164.1) Naval Air Material Center, Philadelphia, Pa.; AD-234-649
11. Agius, P. J. V. J., "Fuel and Lubricating-oil Additives," Brit. 791, 083, Feb. 26, 1958. Addn. to Brit. 782, 989 (C. A. 52, 9583 i). (to Esso Research and Engineering Co.).
12. Agius, P. J. V. J., and D. Mulvey, "The Mechanism of Sludge Suspension in Engine Oil." J. Inst. Petrol. 44, 229-42 (1958).

13. Akagi, J. M., and L. L. Campbell, "Studies of Thermophilic Sulfate - Reducing Bacteria - Adenosine Triphosphate - Sulfurylase of Clostridium Nigrificans and Desulfovibrio desulfuricans." Jour. of Bact. Vol. 84, No. 6, pp. 1194-1201, Dec. 1962.
14. Nagy, J., G. Clement, and J. Claude, "Competitive Oxidation of Hydrocarbons. III. Influence of the Constants of Rupture on the Phenomena of Entrainment." Balaceanu (Inst. Franc. Petrole, Rueil-Malmaison). Bull. Soc. Chim. France 1961, 1303-10; cf. 55,7998e.
15. Al'bitskaya, O. N., and N. A. Shaposhnikova, "The Effects of Molds on the Corrosion of Metals." Microbiology 29, 524-527, 1961.
16. Al'bitskaya, O. N., and N. A. Shaposhnikova, "Effects of Mold on Metal Corrosion." (V. I. Lenin All-Union Electrotech. Inst., Moscow) Mikrobiologiya 29, 725-30 (1960).
17. Allen, F. H., "The Biological Deterioration of Thiokol Linings for Gasoline Storage Tanks." 18 July 46, Iv. (Rept. No. P-2902) Naval Research Lab., Washington, D. C.; AD-116-356
18. Allen, G., Demulsifier, U. S. Patent, 2,363,034-5, Nov. 21, 1944, (to Petrolite Corp., Ltd.)
19. Allen, W. H., "USS Nautilus Boiler Chlorides Test Results." (Technical rept. no. T-208001), ii p., Portsmouth Naval Shipyard, N. H., Feb. 60.; AD-237-495
20. Allred, R. C., T. A. Mills, and H. B. Fisher, "Bacteriological Techniques Applicable to the Control of Sulfate-reducing Bacteria in Water-flooding Operations." (Continental Oil Co., Ponca City, Okla.). Producers Monthly 19, No. 2, 21-2 (1957).
21. Allred, R. C., J. D. Sudbury, and D. C. Olsen, "Corrosion is Controlled by Bactericide Treatment." World Oil, pp. 111-112, Nov. 1959.
22. Allred, R. C., et.al., "Microbiological Examination of Fuels" January 1963, Unpublished.
23. Alquist, F. N., Removing Paraffin Deposits From Wells Such as Deep Oil and Gas Wells to Facilitate Production From Them. U. S. 2, 331, 155 (to the Dow Chemical Co.), Oct. 5.
24. Ambrose, H. A. and O. L. Brundes, Stable Fuel-oil Compositions. U. S. 2, 692,821 (to Gulf Research & Development Co.) Oct. 26, 1954.
25. Amick, E. H., Jr., Removal of Soluble Catalysts from Product Streams, Particularly in Catalytic Hydrocarbon Conversions with Metal Halides of Friedel-Crafts Type. U. S. 2,471,054, (to Standard Oil Development Co.), May 24, 1949.
26. Anders, E., "Meteorite Hydrocarbons and Extraterrestrial Life" Ann. N. Y. Acad. Sci. 93 (Art. 11): 649-644, 1962.

27. Andrews, I. C., "The Influence of the Microflora of the Third Stratum of the Yaregskii Site of Changes in the Composition and Properties of Petroleum," Trudy Inst. Mikrobiol. Akad. Nauk. U.S.S.R. 9.75-80, 1961; Referral. Zhur., Biol., 1961, No. 24B338 (Trans.); 23253
28. Andronikashvili, T. G., "The Effect of Certain Factors on the Separation of the C₅-C₇ Hydrocarbons by the Chromatographic Method." Soobscheniya Akad. Nauk. Gruz. S.S.S.R. 19, No. 3, 273-8 (1957)
29. Anonymous, "Bacterial Deterioration of Emulsions," Appl. Microbiol. Vol. 1, pp. 117-121 (1959).
30. Anonymous, "Corrosion - Resistant Sucker Rods," Corrosion 1, No. 3, 148 (1954)
31. Anonymous, "Fuel Tank Corrosion," Service News, No. 29, Lockheed Aircraft Corporation, Georgia Division, July - August 1961.
- 31a. Anonymous, "Jet Fuel? Delicious, Say Fungi," Machine Design, 32 (7) pp. 12, March 1960.
- 31b. Anonymous, "Jet Fuel, Grades JP-4 and JP-5," MIL-J-5624F, 25 Sept. 1962, (Superseding MIL-J-5624E, 23 March 1960)
32. Aoyama, K., "Jet Fuels," Shoseki Giho 3, 41-56 (1959).
33. Appert, J., and M. Louis, "Attack of Crude Oils by Microorganisms," Rev. Inst. Franc. Petrole 10, 345-8 (1955).
34. Appert, J., "Bacteriology and Petroleum," Rev. Inst. Franc. Petrole, 7, 170-80 (1952).
35. Archibald, R. C., and A. J. L. Toombs, "Jet-propulsion Fuels," Ger. 1,087,845 (Cl. 46a⁶). Appl. Dec. 15, 1958; U. S. Dec. 16, 1957.
36. Arcos, J. C., A.H. Conney, and Ng. Ph. Buu-Hoi, "Introduction of Microsomal Enzyme Synthesis by Polycyclic Aromatic Hydrocarbons of Different Molecular Sizes," J. Biol. Chem. 236, 1291-6 (1961); cf. CA 50, 8022e; 54, 23021i.
37. Arenshtein, A. M., "Role of Azotobacter in Biological Purification of Petroleum Waste Waters," Mikrobiologiya (Transl.) 30(2): 269-271, Illus. 1961.
38. Arkharev, V. I., G. N. Kolesnikov, and S. A. Nemnonov, "Stability of Gas Chromized Steel Against Corrosion in Sulfur-Containing Media." J. Applied Chem. (U.S.S.R.) 16, No. 1 1,2, 105 12, (1943); cf. C. A. 38, 2602.9

39. Arkis, J. W., J. Musser, Motor Fuels, No. Drawing 2, 726, 942, December 13, 1955, Assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana.
40. Arnaudi, C., L. Canonica, and V. Treccani, "Microbial Oxidations of Hydrocarbons and Aromatic Compounds," (Univ. Milan). Ricerca sci. 25, 3244-68 (1955).
41. Arnaudi, C., L. Canonica, and V. Treccani, "Sulle Ossidazioni Microbiche Di Idrocarburi E Di Composti Aromatici." La Ricerca Scientifica, 25 (12): 3245-3268 (1955).
42. Arnaudi, C., and V. Treccani, "The Microbial Breakdown of Hydrocarbons and their Derivatives," Sci. Repts. Inst. Super Sanitas, 1: 378-386, 1961.
43. Arnold, C., Corrosion - Inhibiting Additives for Hydrocarbon Fuels and Solvents. Brit. 579, 369, Aug. 1, 1946.
44. Arobiga, A. G., Material for Formation of a Permanently Plastic Corrosion - Protecting and Waterproofing Material from Paraffin Hydrocarbons. Swiss 292, 808, Nov. 16, 1953 (Cl. 37g).
45. Arunov, R. I., and V. P. Barannik, Corrosion Inhibitor for Petroleum and Its Products. U.S.S.R. 133, 144, Nov. 10, 1960. Addn. to U.S.S.R. 120, 277 (CA 54, 3940h).
46. Asselineau, J., "On the Composition of the Lipids from Corynebacterium diphtheriae." Biochim. et Biophys. Acta 54 (2): 359-360 1961.
47. Asselineau, J., "Some Applications of Gas Chromatography to the Study of Bacterial Fatty Acids." (Eng. summ.) Ann. Inst. Pasteur., 100 (1): 109-119 illus. 1961.
48. Aerospace Industries Assn., "Handbook for Contamination Control of Liquid Rocket Propulsion Systems," Revision I, ASTIA 265034, 610 Shoreham Bldg., Washington, D. C. 1961.
49. ASTM Standards, Petroleum Products, Lubricants, Tank Measurement Engine Tests Part 7, 1958 American Society for Testing Materials.
50. Atlantic Research Corp., "Development of Fuel Resistant Arctic Polymers," Technical Rept. No. 7, ii p, 1 Oct. - Nov. 59; AD-231-483
51. Atlantic Research Corp., Alexandria, Va., "Development of Fuel Resistant Arctic Polymers." Technical Rept. No. 6, 11 p, 1 Aug. - 30 Sept. 59; AD-231-482
52. Atlantic Research Corp., Alexandria, Va., "Development of Fuel Resistant Arctic Polymers." Technical Rept. No. 5, 15 p, 1 June - Aug. 59; AD-231-481

53. Science and Tech. Section, Air Information Div., Washington, D. C., "Nitrogen-, Sulphur-, and Oxygen - containing Resins in Jet Fuels." (Trans. from Characteristics of the Nonhydrocarbon Compositions of the Ligroin - Kerosene Fractions of Crude Oil; Zhurnal prikladnoy khimii, 33:1883-1893, Aug. 1960) (AID rept. 60-58).; AD-215-711
54. Averill, W., and L. S. Ethre, "Gas Chromatographic Analysis of C₁-C₄ Hydrocarbons with Open Tubular Columns," Nature 196 (4860): 1198-1199, 1962.
55. Azoulay, E., and J. C. Senez, "Bacterial Degradation of Paraffinic Hydrocarbons. II. Nature of Intermediary Products as Shown by the Simultaneous Adaptation Method," (Eng. summ.) Ann. Inst. Pasteur (Paris), 98 (6):868-879. 1960

56. Baber, B. B., R. A. Burton, et al., "Lubrication Research and Test Method Development for Aerospace Propulsion Systems," Int. rept. 15 Jan. 61 -15 Oct. 62 on Aerospace Lubricants, Contract AF 33(616) 7223, Proj. 3044, 129pp., Oct 1963; AD-296-000.
57. Boeing Airplane Co., "Bacteriological and Corrosion Study of Microorganisms Found in Fuel Storage," Document NO. EDP 998, April 14, 1960.
58. Bagdon, V. J. and S. Shapiro, "A New Burial Technique for Improving the Soil Burial Method of Evaluating Fabric Preservative Treatments," Developments in Ind. Microbiol., 2, p. 239, 1961.
59. Bakanauskas, S., "Bacterial Activity in JP-4 Fuel," Rept. for Sept. 56- Dec. 57 on Finishes and Materials Preservation, (WADC tech. rept. No. 58-32,) 15 pp. March 1958; AD-151-034.
60. Baker, B.L. and G. M. Hodson, "Magnesium In Crude Oils of Western Canada," Bull. Am. Assoc. Petroleum Geologists, Vol. 43, No. 2, pp.472-476, 1959.
61. Baker, H. R., P. B. Leach, and C. R. Singleterry, "Surface Chemical Methods of Displacing Water and/or Oils and Salvaging Flooded Equipment Part 2. Field Experience in Recovering Equipment Damaged by Fire Aboard USS Constellation and Equipment Subjected to Salt-Spray Acceptance Test," NRL rept. No. 5680, 14 pp., 19 Sept. 1961; AD-265-487.
62. Balint, T., "Aromatic Content of Kerosine and Gas-Oil Fractions by Ultraviolet Absorption," Acta Chim. Acad. Sci. Hung., Vol. 15, pp. 139-150, 1958.
63. Balint, T., "Determination of Aromatic Compounds in Petroleum Distillates by Ultraviolet Light Absorption," Veszpemi Vegyipari Egyetem Közleményei, Vol. 2, pp. 1-13, 1958.
64. Bangs, S. E., "Separation of Microorganisms by Flotation and Other Appropriate Techniques," Summary rept. Sept. 57-Oct. 60, Contract DA 18-064-404- cml-216, 11 pp.; AD-249-850.
65. Baptist, N. M., R. K. Gholson, and M. J. Coon, "Hydrocarbon Oxidation by a Bacterial Enzyme System. I. Products of Octane Oxidation," Biochem. Biophys. Acta., Vol. 69, pp. 40-47, 1963.
66. Baracos, A., W. D. Hurst, and R. F. Legget, "Effects of Physical Environment on Cast Iron Pipe," Tech paper No. 33, Rept. No. NRC-3798, 12 pp., 1955. Reprint from J. American Water Works Association, Vol. 47, pp. 1195-1206, Dec. 1955; AD-89-688.

67. Bardina, V. Y. Zobachev, V. Kuznetson, and P. Shcherbakoo, "Protection of Petroleum Carrying Tankers," Trudy Tsentral. Nauch.-Issledovatel. Inst. Mirsk. Flota 1959 No. 24, pp. 40.
68. Barnett, H. C. and R. R. Hibbard, "Properties of Aircraft Fuels," National Advisory Committee for Aeronautics, Tech note 3276, Aug. 1956.
69. Barnard, D. P., "Jet Fuel Quality Requirements," Petroleum Processing 6, pp. 1229-1232, 1951.
70. Barnum, E. R. and E. W. Zublin, Anti-corrosive, U.S. Patent 2, 371,142, March 13, 1945, (to Shell Development Co.).
71. Barrere, M., J. Rappeneau, and H. Moutet, "Utilization of a Pulse-Jet for a Rapid Classification of Combustibles," Recherche Aeronaut., Paris, No. 37, pp. 21-28, 1954.
72. Bartz, K. W., T. Aczel, H. E. Lumpkin, and F. C. Stehling, "Characterization of Aromatics from Light Catalytic Cycle Stocks by Spectrometric Techniques. Compound Types of the General Formula $C_3H - 16$ and C_nH_{2n-18} ," Anal. Chem., Vol. 34, No. 13, pp. 1814-1821, 1962.
73. Bathchulder, H. R., Separation of Water from Tar Emulsions, U.S. Patent 2,383,363, Aug 21, 1945.
74. Baxter, R. A. and R. T. Keen, "High-Temperature Gas Chromatography of Aromatic Hydrocarbons: Instrument Design and Exploratory Studies at Temperatures up to 430° ," U.S. At. Energy Comm. NAA-SR-3154, 30 pp., 1959.
75. Baxter, R. A. and R. T. Keen, "High Temperature Gas Chromatography of Aromatic Hydrocarbons," Analytical Chem., Vol. 31, No. 3, pp. 475-476, March 1959.
76. Beck, J. V., "Use of Bacteria for Releasing Oil from Sands," Producers' Monthly 11, No. 11, 13 (1947); Fuel Abstracts N. S. 3, No. 6, 30 (1948).
77. Beck, H. R. and R. S. Detrick, Concrete Joint Sealer, U.S. Patent 2,697,697, Dec. 21, 1954 (to Koppers Co., Inc.).
78. Beckmann, R. B., H. G. Corneil, and R. J. Michael, "Pilot Pipe-Line Unit for Determining Viscosity Temperature Relationships," Trans. Am. Inst. Chem. Engrs. 42, pp. 947-959, 1946.
79. Beighley, C. M. and L. E. Dean, "Study of Heat Transfer to JP-4 Jet Fuel," Jet Propulsion 24, pp. 180-186, 1954.

80. Bejuki, W. M., "Conference Minutes Interservice Basic Research Planning Hydrocarbon Jet Fuels and Fuel Systems Microbiology," National Academy of Sciences, Aug. 4, 1961.
81. Bell, W. C., I. W. Gower, and J. R. Hart, "Slagging of Navy Boiler Refractories," Brick and Clay Record 124, No. 3, pp. 87, 89, 90-93, 95, 103, 105, 1954.
82. Bellinger, F., et. al., "Chemical Propellants. Corrosion and Stability Studies," Ind. Eng. Chem. 38, pp. 310-320, 1946.
83. Belyaeva, M. I., "Formation of Methane from Hydrogen and Carbonic Acid by Cultures of Pseudomonas pantotiopha and Bacillus hydrogenes," Nchenye Zapiski Kazan. Gosudarst. Univ. im. U.S. Vl'yanova-Lenina, Biol. 114, No. 1, pp. 19-22, 1945.
84. Bendix Support Equipment-South Bend, Bendix Corp, South Bend, Ind., "A Study of a Method for Removing Ice and Water from Strategic Aircraft Fuel Tanks," Rept. on Petroleum Servicing and Handling Equip., Rept. No. BPD-863-13861, Contract AF 33(600) 41909, Proj. 6159, 100 pp., Nov. 1961; AD 271-961.
85. Ben'Kovskii, V. G., "Emulsifiers of Petroleum Emulsions," Doklady Akad. Nauk S. S. S. R. 59, pp. 1101-1103, 1948.
86. Bennett, E. O., "Deterioration of Petroleum Products by Bacteria," Chem. Specialties Mfg. Assoc. Proc., 45th Annual Meeting, Dec. 1958, pp. 115-120.
87. Bennett, E. O., "Factors Involved in the Preservation of Metal-Cutting Emulsions," Developments in Industrial Microbiology, Vol. 3, New York: Plenum Press, Inc., 227 W. 17 St., 1962.
88. Bennett, E. O. and E. B. Hodge, "Control of Sulfate-Reducing Bacteria During Recovery of Oil by Water Flooding," U.S. Patent 3,001,934, April 2, 1959, (to Commercial Solvents Corp.).
89. Bennett, E. O. and E. B. Hodge, "Process for the Control of Bacteria," U. S. Patent 2,979,455, April 11, 1961, (to Commercial Solvents Corp.).
90. Bennett, E. O. and E. B. Hodge, "Process for the Control of Bacteria in Water Flooding Operations," U.S. Patent 2,976,236, March 21, 1961, (to Commercial Solvents Corp.).
91. Bennett, E. O. and E. B. Hodge, "Process for the Control of Bacteria in Water Flooding Operations," U.S. Patent 3,001,935, Sept. 26, 1961, (to Commercial Solvents Corp.).

92. Benoit, J. and M. Quesson, "Physicochemical Study of Operations Yielding a Type of Iron-Copper Catalyst Active at Low Temperature and Reproducible," Proc. 3rd World Petroleum Congr. 1951, Sect. IV, pp. 57-67; Fuel Abstr. 11, No. 5, p. 611, 1952.
93. Bens, E. M., "Adsorption Characteristics of Some Gas-Liquid Chromatographic Supports," Anal. Chem. 33, pp. 178-182, 1961.
94. Berg, C. H. C., "Treatment of Oil Shale," U.S. Patent 2,441,386, May 11, 1948, (to Union Oil Co. of California).
95. Berger, H. G. and P. M. Goodloe, "Breaking Petroleum Emulsions of the Water-in-Oil Type," U.S. Patent 2,355,778, Aug. 15, 1944, (to Soccony-Vacuum Oil Co.).
96. Berger, D. E., "Fractionation of Hydrocarbon Mixtures," U.S. Patent 2,990,437, May 28, 1959, (to Phillips Petroleum Co.).
97. Berger, D. E., "Process Control System," U.S. Patent 2,990,437, June 27, 1961, (to Phillips Petroleum Co.).
98. Berk, H. and D. W. Young, "Polymers of Low Molecular Weight", U.S. Patent 2,431,454, Nov. 25, 1947, (to Standard Oil Development Co.).
99. Bergman, J. I., "Corrosion Inhibitors in the Petroleum Industry," Ann Univ. Ferreira, Sec. 5, Suppl. No. 3, pp 519-73 (1960).
100. Berman, L. and E. J. Schwoegler, "Corrosion-Preventive Additives, Quart. rept. No. 41, 5 Oct. 53-5 Jan. 54. Contract AF 33(038) 9202, 10 pp., 6 Jan. 1954. AD-27-426
101. Berndtsson, B. and L. I. Turunen, "Coating Compositions Containing Styrene-Modified Unsaturated Polyesters and Product with Low Oxygen Diffusion," Swed. Patent 157,555, Jan. 15, 1957.
102. Bernelin, B., "Electrochemical Study of the Micellar State of Detergent Oils," Rev. Inst. Franc. Petrole et Ann. Combustibles Liquides 14 pp. 1295-1306, (1959).
103. Bernstein, H. J., "Bond Energies in Hydrocarbons," Trans. Faraday Soc., Vol. 58, No. 480, Part 12, pp. 2285-2306, 1962.
104. Bertollette, W. deB., et al., "Improving Fuel Oils Through Addition of Agents," Petroleum Engr. 28, No. 12, Ch12, pp. 45-46, 1956.
105. Besada, R. A. C., "Viscosity of Petroleum Emulsions from Medoza Oil Fields," Bol. Informaciones Petroleras, Buenos Aires, Vol. 23, pp. 187-193, 1946.

106. Bespolov, I. E., A. M. Genshtel, and E. M. Bushueva, "Determination of the Hydrocarbon Composition of Cracked Ligroin and Kerosine," Novosti Neft. Tekh. Neftepererabotka 1958, No. 5, pp. 6-9.
107. Bespolov, I. E. and E. V. Kolotushkina, "Formation of Deposits on Cadmium-Plated Parts of Diesel Pumps by the Action of Mercaptans Contained in Jet Fuels," Khim. Sera-i Azotorg. Soedinenii, Soderzhashchikhsya v Neft. i Nefteproduct., Akad. Nauk S.S.S.R., Bashkirsk. Filial 3, pp. 475-481, 1960.
108. Bespolov, I. E., O. V. Pletneva, E. V. Kolotushkina, G. P. Belyaeva, and M. S. Malysheva, "Corrosiveness of Fuels Produced from Sulfur-Containing Naphtha," Ibid., pp. 276-283.
109. Beuber, C. G., "The Present Status of Bacterial Corrosion Investigations in the U. S.," Corrosion, Vol. 9, pp. 95-99, March, 1953.
110. Beuther, H. and R. G. Goldthwait, Stabilization of Fuel Oil, U. S. Patent 2,775,229, July 17, 1956, (to Gulf Research & Development Co.).
111. Bibliography on "Microorganisms affecting Petroleum and Petroleum Products Including Reports on Sulfate-Reducing Bacteria," Natl. Acad. Sci., Natl. Res. Council, August 3, 1961; AD-265-033.
112. Bieberdorf, F. W., R. G. Weichlein, and L. E. Kidwell, Jr., "Preliminary Examination of Microorganisms Isolated from Hydrocarbon Fuels," June 16, 1959, Southwest Res. Inst. Internal Report.
113. Biehn, G. F. and M. L. Ernsberger, "Polyvinyl Alcohol as an Emulsifying Agent," Ind. Eng. Chem. 40, pp. 1449-1453, 1948.
114. Birch, Stanley F., F. A. Fidler, C. B. Collis and Anglo-Iranian Oil Co., Cyclohexane, Brit. Patent 612,390, Nov. 11, 1948.
115. Birkholz, D. O., M. R. Rogers, and A. M. Kaplan, "The Microbiological Deterioration of Hydrocarbons and the Related Degradation of Equipment Used for Storage, Distribution, and Handling of Petroleum Products," Microbiological Deterioration Series, No. 5, June, 1961.
116. Birkholz, D. O., M. R. Rogers, and A. M. Kaplan, "The Microbiological Deterioration of Hydrocarbons and the Related Degradation of Equipment Used for the Storage, Distribution, and Handling of Petroleum Products," QMRD Supplement No. 1, March, 1962.
117. Biswell, C. B., Stabilized Fuel-Oil Compositions, U. S. Patent 2,696,427, Dec. 7, 1954, (to E. I. du Pont de Nemours Co.).
118. Blade, O. C., "Aviation Fuels, 1962," Mineral Industry Surveys, Department of the Interior, No. 29, June, 1963.

119. Blade, O. C., "Aviation Fuels-1952 Production," Oil Gas J. 52, No. 9, 95 pp., 1953.
120. Blade, O. C., "National Annual Survey of Aviation Gasoline and Aviation Jet Fuel, 1954 Production," U.S. Bur. Mines, Rept. Invest. 5132, 15 pp., 1953.
121. Blair, C. M. Jr., W. Groves, and Wm. F. Gross, "Corrosion Inhibitor," U. S. Patent 2,466,517, April 5, 1949, (to Petrolite Corp., Ltd.).
122. Blair, C. M., Jr., W. Groves, and Wm. F. Gross, "Corrosion Inhibitors," U.S. Patent 2,468,163, April 26, 1949, (to Petrolite Corp. Ltd.).
123. Blair, C. M., Jr., "Prevention and Treatment of Petroleum Emulsions," Oil Gas J. 44, No. 11, pp 116-127, 1945.
124. Blair, C. M., Jr., Treatment of Siliceous Oil Bearing Strata for Increasing Oil Production from Them, U.S. Patent 2,331,594, Oct. 12, 1948, (to Petrolite Corp. Ltd.).
125. Blanchard, G. C., "Mechanism of Microbiological Contamination of Jet Fuel and Development of Techniques for Detection of Microbiological Contamination." First Quarterly Progress Report, 1 Mar. 1963 to 1 June 1963; Contract No. AF33(657)-9186 Melpar, Inc., Falls Church, Va.
126. Block, M. G., "Determinations of C₁ - Through C₇- Hydrocarbons in a Single Run by a Four-Stage Gas Chromatograph," Gas Chromatog. Intern. Symposium, 2nd, East Lansing, Mich. 1959, pp.133-162, 1961.
127. Bluestein, B. A. and H. F. Sober, Liquid Hydrocarbon Jet Fuels Containing Polycyanoalkylsiloxanes as Foam Depressors, U.S. Patent 2,992,083, July 11, 1961, (to General Electric Co.).
128. Blum, I. L. "Determination of Asphaltic and Resinous Matter and of Paraffins in Crude Oils," Bul. Inst. Notl. Cercelari Technol. 2, pp. 110-117, 1947.
129. Blum, I. E., et al., "The Development of a Method to Determine the Degree of Penetration of a Rustoleum Fish-Oil-Based Protective Coating into Rust on Steel Specimens," Final sum. rept., 22 pp., 10 May 1955. AD84969
130. Boardman, A., "Finishing Materials Ingredients, Alkyd Resins," Org. Finishing 7, No. 3, pp. 38-42, 1946.
131. Bogdanova, V. M., "Utilization of Nitrogen Compounds from Oil by Microorganisms Under Anaerobic Conditions," Mikrobiologiya 30, pp. 299-380, 1961.

132. Bogdanova, V. M., Ibid., (transl.), pp. 265-266.
133. Boggs, W. A., "Wing Tank Contamination and Corrosion of Royal Australian Air Force C-130 Hercules with Additional Notes on Upper Center Wing Corrosion on These Airplanes," Lockheed Aircraft Corporation rept. VE-F.P. 79, May 3, 1961.
134. Bogomolov, E. M., et al., "Oils of the Byelorussian S.S.R.," Tr., Uses. Neft. Nauchn. Issled. Gcologorazved. Inst. 1961, No. 174, pp. 271-277.
135. Boies, D. B. and J. I. Begman, "Effect of Variables in Laboratory Testing of Corrosion Inhibitors for Refined Petroleum Products," Corrosion 13, pp. 227 t- 282 t, 1957.
136. Bokova, E. N., "Formation of Heavy Gaseous Hydrocarbons During the Anaerobic Decomposition of Organic Substances," Geol. Nefti i Ganza 3, No. 8, pp. 44-47, 1959.
137. Bokova, E. N., et al., "Oxidation of Gaseous Hydrocarbons by Bacteria as a Basis of a Microbiological Prospecting for Petroleum," Doklady Akad. Nauk S.S.S.R. 56, pp. 755-757, 1947.
138. Bollo, F. G. and F. M. Fowkes, "Jet Fuel," Ger. Patent 1,002,166, Feb. 7, 1957, (N V. de Batradsche Petroleum Moatschoppij).
139. Bolt, J. A., "Copper-Strip Corrosion Tests," Oil Gas J. 46, No. 14, pp. 99-100, 1947.
140. Bond, D. C. and M. Savoy, Breaking Emulsions, U. S. Patent 2,457,634, Dec. 28, 1948, (to Pure Oil Co.).
141. Bonetti, E. M. and L. M. V. Dormia, "Microbiological Research on Petroleum Soils and Microbial Oxidation of Hydrocarbons. I." Ann. Microbiol. 6, pp. 260-268, 1955.
142. Bonetti, E. M., "Microbiological Research Oil-Bearing Soils and Microbial Oxidation of Hydrocarbons," Ricerca Sci. 26, pp. 779-802, 1956.
143. Bonetti, E., "Microbiological Researches on Petroliferous Soils," Ann. Microbiol. 6, pp. 51-60, 1954.
144. Bonner, W. A., Fuel-Oil Color Stabilization, U.S. Patent 2,672,498, Mar. 16, 1954, (to Shell Development Co.)

145. Boord, C. E., "The Synthesis, Purification, and Properties of Hydrocarbons of Low Molecular Weight," Proc. 3rd World Petroleum Congr., Sect. VI, pp. 247-258, Hague 1951.
146. Booth, G. H., and A. K. Tiller, "Polarization Studies of Mild Steel in Cultures of Sulphate-Reducing Bacteria," Trans. Faraday Soc., Vol. 56, No. 11, pp. 1689-1696, Nov. 1960.
147. Booth, G. H., et al., "A Laboratory Study of Well-Preserved Ancient Iron Nails from Apparently Corrosive Soil," Corrosion Sci., Vol. 2, pp. 197-202, 1962.
148. Borneff, J. and R. Fischer, "Carcinogenic Substances in Water and Soil. Demonstration of Polycyclic Hydrocarbons by Spectral Fluorescent Analysis," Arch. Hyg. und Bakt., Vol. 145, No. 4, pp. 241-244, 1961.
149. Boyland, E. and B. Green, "The Interaction of Polycyclic Hydrocarbons and Purines," Brit. Jour. Cancer, Vol. 16, No. 2, pp. 237-360, 1962.
150. Braae, B., Separating Mixtures of Organic Substances by Treatment with Solvents, Swed. Patent 132,138, July 3, 1951, (to Aktiebolaget Separator).
151. Bradley, H. P., Resorcinol-Formaldehyde Adhesive, U. S. Patent 2,514,196, July 4, 1950, (to Firestone Tire Rubber Co.).
152. Bradley, R. E., "Fuel Tank Contamination and Corrosion," Lockheed Aircraft Corporation rept. VE501, June 27, 1961.
153. Bradley, R. E., "Summary of Published Matter Concerned with Fuel-Tank Contamination and Corrosion," Lockheed Aircraft Corporation Rept. VE-F.P.81, May 12, 1961.
154. Brannon, R. A., "Internal Corrosion of Crude-Oil Tanks," Proc. Am. Petroleum Inst., Sect. V, 28, pp. 57-60, 1948.
155. Braun, M. P. and A. G. Karelina, "Selection of Corrosion-Resistant Steels for Fuel Tanks," Korroziya i Bor'ba s Nei 7, No. 1, pp. 54-58, 1941; Khim. Referat. Zhur. 4, No. 9, 144 pp., 1941.
156. Brenneman, A. E., Fuel Oil Treated with Zinc, U.S. Patent 2,706,149, Apr. 12, 1955, (to Esso Research and Engineering Co.).
157. Brenner, N. and V. J. Coats, "Molecular Sieves as Subtractors in Gas Chromatographic Analysis," Nature 181, pp. 1401-1402, 1958.
158. Britton, S. C. and R. M. Schirmer, Fuel for Operating Pulse-Jet Engines and Protectively Coating Valves of Such Engines, U.S. Patent 2,698,510, Jan. 4, 1955, (to Phillips Petroleum Co.).

159. Britton, S. C. and R. M. Schirmer, Paraffin Hydrocarbon Fuel for and Method of Operating Pulse-Jet Engines, U.S. Patent 2,698,513, Jan. 4, 1955, (to Phillips Petroleum Co.).
160. Brouillette, C. V., "Use of Volatile Corrosion Inhibitors for Preserving the Interior Surface of the Steel Pipe," Final rept. 1958, Proj. NY 450004-6; Tech. note N-33, 10 pp. AD-221-801
161. Brown, I., "Identification of Organic Compounds by Gas Chromatography," Nature 188, pp. 1021-1022, 1960.
162. Brown, K. M., Means for Removing an Acidic Component, Particularly Hydrogen Sulfide, and Water from Fluid Streams; U.S. Patent 2,761,755, Sept. 4, 1956, (to Universal Oil Products Co.).
163. Brown, K. M., Removal of Hydrogen Sulfide and Water from Hydrocarbons, U.S. Patent 2,761,755, Sept. 4, 1956, (to Universal Oil Products Co.).
164. Browning, M. E. and C. J. Kastrop, Leak-Detector Fluid for Hydrocarbon-Fuel Equipment, U.S. Patent 3,006,861, Oct. 4, 1957, (to General Dynamics Corp.).
165. Bruckner, H. and W. Zankl, "Nature of the Distillation Residue Obtained in Refining Light Oil," Gas-u. Wasserfach 89, pp. 97-100, 1948.
166. Brunnee, C., "Modifications of a Mass Spectrometer for the Analysis of Higher Hydrocarbons," Z. Anal. Chem. 170, pp. 371-380, 1959.
167. Budarov, I. P., "Method and Apparatus for Fast Determination of Actual Gum Content in Fuels," Khim. i Tekhnol. Topliva i Masel 1957, No. 10, pp. 66-71.
168. Burdet-Berthold and Mouratoff, Separation of Hydrocarbons by Adsorption, Fr. Patent 1,064,233, May 12, 1954.
169. Burk, F. C., "Minutes, Meeting of ADHOC Group on Microbiological Growths in Fuels," Office of the Director of Defense Research and Engineering, Washington 25, D.C., 13 Feb., 1961.
170. Burke, E. S., "The Compatability of Certain Barrier Materials with VCI Materials," Proj. No. TB4-672, rept. No. 2; RIA Lab. rept. No. 57-1298, 33 pp., 7 June, 1957; AD 139-524.
171. Burke, E. S., "The Compatability of Certain Barrier Materials with VCI Materials with VCI Materials," Proj. No. TB5-006G, rept. No. 3; RIA Lab. rept No. 58-1868, 17 pp., 21 July, 1958; AD 202-180.

172. Burke Research Co., Van Dyke, Mich., "Non-Hazardous Emulsion-Type Protective Coating," Final Summary rept. 20 Mar. 56-31 Dec. 57, Rept. No. 19, Contract Nobs - 72101, 159 pp., 2 Jan., 1958; AD-209-334.
173. Burrell, H., "Protective Coatings," Interchem. Corp., Cincinnati, O.
174. Bushnell, L. D. and H. F. Haas, "The Utilization of Certain Hydrocarbons by Microorganisms," J. Bacteriol. 41, pp. 653-673, 1941.
175. Butkov, N. A., et al., Additive for Liquid Fuels, U.S.S.R. Patent 126,211, Feb. 10, 1960.
176. Butlin, K. R., et al., "Sulphate-Reducing Bacteria and Internal Corrosion of Ferrous Pipes Conveying Water," Nature, Vol. 163, pp. 26-27, Jan. 1949.

177. Caldwell, J.A. and M.L. Lytle. "A Laboratory Method for Screening Oil-Well Corrosion Inhibitors," Corrosion, Volume 9, pp. 192-195, June 1953.
178. Caldwell, J.A. and M.L. Lytle. "Bacterial Corrosion of Offshore Structures," Corrosion, Volume 9, pp. 192-195, June 1953.
179. Caldwell, J.A. and M.L. Lytle. "Internal Casing Corrosion in Sour Oil Wells," Corrosion, Volume 12, pp. 67t-70t, 1956.
180. Callinan, T.D., R.M. Roe, and J.B. Romans. "Factors Affecting Use of Dielectric Methods in Determination of Sea Water in Navy Special Fuel Oil," Anal. Chem., Volume 28, pp. 1911-1916, 1956.
181. Camp, Elza Q. and J. Davidson. Corrosion Prevention, U.S. Patent 2,415,161, February 4, 1947, (to Standard Oil Development Co.).
182. Canny, M.J. "Apparatus for Elution From Paper Chromatograms," J. Chromatog. Volume 3, pp. 496-497, 1960.
183. Carasso, F.M., Polysulfide Sealing Compounds, U.S. Patent 2,465,512, March 29, 1949, (to Lockheed Aircraft Corp.).
184. Carlson, V., and E.O. Bennett, "The Microbial Flora of Petroleum Flood Waters," Bact. Proc. 60:35, 1960.
185. Carlson, R.G., "Quantitative Comparison of Surface Finishes and Heat-Treatment of Stainless Steel with Respect to Corrosion by Jet Fuels," Corrosion, Volume 13, pp. 672t-676t, 1957.
186. Carr, D.E., Jet Engine Fuel Compositions, U.S. Patent 3,006, 142, Dec. 21, 1959, (to Phillips Petroleum Co.).
187. Cart, E.N. Jr., "Accelerated Storage Stability Tests," Report, Directorate of Materials and Processes, Aero. Systems Div., WPAFB; AD-269-171.
188. Chamberlain, L.C. Jr., Producing a Sealing Deposit in a Well Bore, U.S. Patent 2,378,687, June 19, 1945, (to Dow Chemical Co.).
189. Champagnat, A., et al. "Biosynthesis of Protein-Vitamin Concentrates from Petroleum," Nature, Volume 197, pp. 13, 1963.
190. Champagnat, A., C. Vernet, B. Laine, and J. Filosa, "Biosynthesis of Protein-Vitamin Concentrates from Petroleum," J. Am. Med. Assoc., Vol. 184, p. 1037, (1963).
191. Champagnat, A., "Considerations on Eventual Production of Proteins by Petroleum Industry," Bull. Acad. Nat. Med. (No. 9-10) 147, 182, 1963.

192. Chang, Ta-Chuang Lo., and Clarence Karr, Jr., "Gas-Liquid Chromatographic Analysis of Aromatic Hydrocarbons Boiling Between 202° and 280° in a Low-Temperature Coal Tar," Anal. Chim. Acta, Volume 24, pp. 343-356, 1961.
193. Chang, Ta-Chuang Lo., and C. Karr, Jr., "Gas-Liquid Chromatographic Analysis of C₁₀-C₁₆ N-Paraffins, Isoparaffins and α -Olefins in a Low-Temperature Coal Tar," Anal. Chim. Acta, Volume 26, pp. 410-418, 1962.
194. Chemical Week, "New Aims for Biosynthesis." pp. 49-53, (February 2, 1963)
195. Chenicek, J.A., Combination Alkylation and Dehydrogenation Process, U.S. Patent 2,969,394, Jan. 24, 1961, (to Universal Oil Products Co.).
196. Chenicek, J.A., Oxidation Inhibitor, U.S. Patent 2,700,612 Jan. 25, 1955, (to Universal Oil Products Co.).
197. Chenicek, J.A., Stabilization of Organic Compositions, Especially Burner Oils, U.S. Patent 2,714,057, July 26, 1955, (to Universal Oil Products Co.).
198. Chernozhukov, N.I., "Effect of the Chemical Composition on Refining and Use of Lubricating Oils," Khim. Sostav i Ekspluntats. Svoistava Smazochnykh Masel. (Moscow: Gosudarst. Nauch.-Tekh. Izdatel. Neft. i Gorno-Topliv. Prom.). Sbornik 1957, 5-24; Referat. Zhur., Khim. 1958.
199. Chertkov, Ya. B., "The Mechanism of the Formation of Sediments in Fuels of Type T." Khim. i Tekhnol. Topliv i Masel 5, No. 9, 57-61 (1960); cf. CA 48, 1660e; 50,6028b; 53, #13986c.
200. Chertkov, Ya. B., V.N. Zrelov., et al., "Corrosive Activity of Hydrocarbon Fuels in Presence of Elementary Sulfur," Khim. i Tekhnol. Topliv i Masel 7, pp. 62-66, July 1958. AD-254-203
201. Chertkov. Ya. B., V.N. Zrelov, and V.M. Shchagin, "Organic Sulfur Compounds in Fuels as Corrosion Inhibitors For Copper and Copper Alloys," Ohislenic Agelvodorodov v Zhidkol Faze Akad. Nauk S.S.S.R., Inst. Khim.-Fiz., Sbornik Statel pp. 284-292., 1959.
202. Chertkov. Y. B., and V.N. Zrelov. "Oxidation of Hydrocarbon Fuels During Prolonged Storage," Novosti Neft. Tekh., Neftepererabotka No.2, 19-20, 1956: Referat. Zhur., Khim., 1956.
203. Chertkov. Y.B., and V.N. Zrelov., "Oxidation of Hydrocarbon Fuels on Storage," Ohislenic Agelvodorodov v Zhidkol Faze Akad. Nauk S.S.S.R., Inst. Khim. - Fiz., Sbornik Statel pp. 293-308, 1959.
204. Chertkov, Y.B., V.N. Zrelov, N.I. Marenchenko, and V.M. Shchagin, "The Effect of Mercaptans on the Formation of Sediments in Fuel Oil," Khim. i Tekhnol. Topлива No. 12, pp. 47-53, 1956.

205. Cheshire, J.D., and R.P.W. Scott, "Gas-Liquid Chromatography: Effect of Support Size and Proportion of Liquid Phase on Column Efficiency," J. Inst. Petrol, Volume 44, pp. 74-79, 1958.
206. Chessick, J.J., and A.C. Zeitlemoyer, "Basic Factors in the Formation and Stability of Non-Soap Greases for High Temperature Applications," Report, Institute of Research, Lehigh U., Bethlehem, Pa.; AD-269-240
207. Chouteau, J., E. Azoulay, and J.C. Senez. "Anaerobic Formatio. of N-Hept-1-ene From n-Heptane by Resting Cells of Pseudomonas aeruginosa," Nature, Volume 194, pp. 516, 1962.
208. Chouteau, E.A. and J.C. Senez, "Degradation Bacterienne Des Hydrocarbures Paraffiniques. IV. Identification Par Spectrophotometrie Infrarouge De Hept-1-ene Profuit A Partir Du N-Heptane Par Des Suspensions Non Proliferantes De Pseudomanas aeruginosa," Bulletin de la Societe de Chimie Biologique, 44 (7-8) : 671-677, 1962.
209. Christensen E.R., Beacon, and H.V. Hess, Method for Separation of Organic Mixtures, U.S. Patent 2,818,449, Dec. 31, 1957.
210. Churchill, A.V. and W.W. Leathen, "Development of Microbiological Sludge Inhibitors," Report, Gulf Research and Development Co., Pittsburgh, Pa., June, 1961; AD-263-009
211. Churchill, A.V., "Microbiological Examination of Jet Fuel-Water Samples Ramey and Eglin Air Force Bases," Report, Nonmetallic Materials Lab., Aero. Systems Div., WPAFB., July, 1962.; AD-285-002
212. Churchill, A.V., "Microbial Fuel Tank Corrosion, Mechanisms and Contributory Factors," Materials Protection, Volume 2, pp. 18-20, 22-23, 1963.
213. Churchill, A.V., "Microbial Fuel Tank Corrosion, Mechanisms and Contributory Factors," Presented at NACE Conference, San Diego, Calif., Oct. 1962.
214. Churchill, A.V. and W.W. Leathen, "Research on Microbiological Sludge Inhibitors," Report, Gulf Research and Development Co., Pittsburgh, Pa., Apr. 1962.; AD-284-183
215. Churchill, A.V. and E. Mitchell, Stabilization of Fuel Oil Against Sludge Formation, U.S. Patent 2,996,366 Aug. 12, 1954, (to Gulf Research and Development Co.).
216. Churchill, A.V., and E. Mitchell, Stable Fuel Oil Compositions, U.S. Patent 2,996,366 Aug. 15, 1961, (to Gulf Research and Development Co.).
217. Churchill, A.V. "Summary of Jet Fuel Microbiological Contamination and Integral Fuel Tank Corrosion Problems," No publication data.

218. Ciapetta, F.G., H.L. Coonradt, and W.E. Garwood. Jet Fuel and Aromatic Hydrocarbons, U.S. Patent 3,015,549, Jan. 2, 1962, (to Socony Mobile Oil Co., Inc.).
219. Ciegler, Alex, George E.N. Nelson and Harlow H. Hall, "Microbiological production of Carotenoids. VIII. Influence of hydrocarbon on carotenogenesis by mated cultures of Blakeslea trispora:" Appl. Microbiol. 10(2): 132-136., 1962.
220. Cines, M.R., Separation of Straight-Chain Hydrocarbons From Branched-Chain Paraffins by Azeotropic Distillation, U.S. Patent 2,692,227 Oct. 19, 1954, (to Phillips Petroleum Co.).
221. Claxton, G. and K.H.V. French, "The Corrosive-Sulfur Test," J. Inst. Petroleum, Volume 35, pp. 496-507, 1949.
222. Cohen, S.A. and G.H. Reifenburg "Research and Development on the Purification of Jet Fuel by Centrifugation," PB Rept. 140,503.
223. Cole, C.A., H.B. Minor, et al, "Stability of Jet Turbine Fuels in Storage," WADC Technical Report No. 53-63, pt. 2., Feb. 1955.; AD-63-285
224. Cole, J. and J. Krawetz, Laboratory Testing Apparatus for Gum, Varnish, and Similar Constituents Present in Lubricating Oils and their Corrosive Action When Exposed to High-Sulfur Motor Fuels. U.S. Patent 2,669,865 Feb. 23, 1954.
225. Colegate, G.T., "Use of Inhibitors for Controlling Metal Corrosion. V. Inhibitors for Light Metals", Metallurgia, Volume 39, pp. 316-18, 1949
226. Collick, C.J., "Qualification Test of Texaco TXA-182 Fuel Corrosion Inhibitor," Report No. NAMC-AEL-1700, 8 Jan. 62, Aero. Engine Lab., Naval Air Material Center, Philadelphia, Pa.; AD-269-893L
227. Compagnie de produits chimiques Boston. Caulking Compounds, French Patent 1,169,698 Jan. 5, 1959.
228. Container Labs., Inc., Wash., D.C. "Evaluation of Volatile Inhibitors FY 1957," Report No. 31, 1-30 Nov. 60.; AD-247-653
229. Container Labs., Inc., Wash., D.C. "Directive For the Selection and Use of Volatile Corrosion Inhibitors for the Preservation of Chemical Corps Equipment and Material," Report, 27 Jan. 61.; AD-250-751
230. Continental Oil Co., Aluminum-Containing Liquid-Fuel Additives, Brit. Patent 846,174 Aug. 24, 1960.
231. Continental Oil Co., Aluminum-Containing Organic Compositions and Method of Preparing the Same, Brit. Patent 846,174 Aug. 24, 1960.

232. Cook, W.B., "Case Histories of Corrosion Problems and Use of Protective Coatings in Their Solution," Oil Gas J. 50, No. 45, pp. 313-316, 1952.
233. Cooke, N.E., Disposal of Carbon Sludge From Partial Oxidation of Fuel, Can. Patent 594,423 Mar. 15, 1960, (to Canadian Industries Ltd.).
234. Coonratt, H.L. et al., Method for Stabilizing Fuel Oils With Activated Ion-Exchange Resins, U.S. Patent 2,831,799 April 22, 1958, (to Socony Mobile Oil Co., Inc.).
235. Cooper, C.W. et al., "Elastomers For Fuel Systems Containing Micro-organism-Controlling Additives," Battelle Memorial Institute report, December 31, 1962. Contract AF33(657)-9804
236. Cooper, C.W. et al., "Elastomers For Fuel Systems Containing Micro-organism-Controlling Additives," Battelle Memorial Institute Second Quarterly Report, March 31, 1963. Contract AF33(657)-9804
237. Copenhagen, W.J., "The Pathology of Metals," Metal Industry, Volume 77, pp. 377, 1950.
238. Cornish, T.N. and C.L. Brown, "Resistance of Copper-Nickel Alloys to Corrosion by JP-5 Fuel," U.S. Naval Eng. Lab., ref. unknown
239. Cornu, A., "Spectrographic Determination of Metallic Contaminants in Petroleum Products," Congr. Croupe Avance, Methodes Anal. Spectrog. Prod. Met 10 Paris, pp. 91-7, 1957.
240. Counts, J.B., "Development and Evaluation of Gum Preventive Gasoline," Report No. CCL-130, Coating and Chemical Lab., Aberdeen Proving Ground, Md. 26 Aug. 62. AD-290-723
241. Cozzens, F.R. "Sludge Effects on Oil Behavior," World Oil, 134, No. 5, 226, #228, 231-2, 234, 1952.
242. Crawford, J.D. and T.M. Newell, "How Inhibitors Work in Subsurface Corrosion," World Oil, 139, No. 7, 191-3, 196, 1954.
243. Criddle, D.W. and R.L. LeTourneau, "Fluorescent-indicator Absorption Method for Hydrocarbon-Type Analysis," Anal. Chem. Volume 23, pp. 1620-1624, 1951.
244. Crossley, F.A. et al., "The Determination of the Effects of Elevated Temperatures on the Stress Corrosion Behavior of Structural Materials," U.S. Dept. Com., Office Tech. Serv., PB Rept. 161, 962, 1960.
245. Cudkowicz, G., "Action of Some Hydrocarbons, Cancerogenic and Non-Cancerogenic on the Activity of Enzymes Catalyzing Oxidation Reduction Process. II. Malic Dehydrogenase and Succinic Dehydrogenase," Tumori 39(4): 200-208, 1952.

- 246. Cullis, F. "The Point of Attack in the Oxidation of Hydrocarbons," Petroleum 21, pp. 49-52, 58, 1958.
- 247. Cyba, H.A. Hydrocarbon Oil Composition, U.S. Patent 3,017,360 Jan. 16, 1962 (to Universal Oil Products Co.).
- 248. Czuha, M. and K.W. Gardiner, "Analysis of Water in Jet Fuels," Instrument and Control Systems, 34, pp. 2074-2076, 1961.
- 249. Czuha, M. Jr. and K.W. Gardiner, "An Analyzer For Moisture and Solids in Jet Fuels," WADD-TR-60-461, Sept. 1960.

250. Danies, I. and J.T.S. Gundry., "The Effectiveness of Volatile Amine Treatment to Feed Water for Corrosion Prevention," Chemistry and Industry. pp. 536-537, March 30, 1963.
251. Davis, J. B. and R. L. Raymond, "Oxidation of Substituted Cyclic Hydrocarbons by a Nocardia," Bacteriol. Proc., pp. 55, 1961.
252. Dasher, G. F. and A. J. Mabis., "Dynamic Structure in Detergent Forms," J. Phys. Chem., Volume 64, pp. 77-83, 1960.
253. Davis, W., Corrosion Inhibitor, U.S. Patent 2,545,137, Mar. 13, 1951, (to Shell Development Co.)
254. Davis, H. C. and J. Houseman., "Corrosion Tests of Molybdenum Disulphide in Aircraft Rear Spar Joints," Royal Aircraft Establishment (Gt. Brit.) Technical Note No. Met Phys 328, Nov. 1960; AD-253-916.
255. Davis, J. B., R. L. Raymond and J. P. Stanley, "Areal Contrasts in the Abundance of Hydrocarbon Oxidizing Microbes in Soils," Applied Microbiol, Volume 7(3), pp. 156-165, 1959.
256. Davis, J. B., "Microbial Decomposition of Hydrocarbons," Ref: Ind. Eng. Chem 48, (1956) pp. 1444-1448.
257. Davis, J. B. and H. F. Yarbrough, Jr., "Preliminary Experiments on a Microbial Fuel Cell," Science, 137(3530), pp. 615-616, 1962.
258. Davis, J. B. and R. L. Raymond., "Oxydation of Alkyl-substituted Cyclic Hydrocarbons by a Nocardia During Growth on N-alkanes," Applied Microbiol, 9(5), pp. 383-388, 1961.
259. Davis, J. B., "Symposium on Petroleum Microbiology," Bacteriol. Rev. 20, pp. 261-264, 1956.
260. Davis, W. J., "Chemical Cleaning of Refinery Equipment," Petroleum Engr. 17, No. 9, pp. 51-54, 1946.
261. Davison, D. W., "Electrostatic Tar Precipitation," Gas Rev. 1, pp. 370-372, 1947.
262. Davydov, P. I. and G. F. Bol'shakov., "The Effect of Natural Resinous Substances on the Stability of Reactive Fuels at High Temperature," Khim i Tekhnol. Topliv i Masel 5, No. 10, pp. 35-38, 1960.
263. Decker, R., and H. Holtz (Hans Schiedemandel, inventor). Oil-, Fuel- and Solvent-resistant Materials, Ger. Patent 827,307, Jan. 10, 1952.

264. Degler, G. H., "Evaluation of Dupont R. P.-2 Corrosion Inhibitor JP-4 Turbo-Fuel Additive," Systems Research Labs, Inc. Test Report No. 4-A, Amendment No. 1, 14 Feb. 1963.
265. DeGray, R. J. and F. N. Killian., "Bacterial Contamination of Refined Petroleum Products," Standard Oil Co. Report 1851, project G-17, presented at Am. Chem. Soc. at Cleveland, Ohio, April 11, 1960.
266. DeGray, R. J. and L. N. Killian, "Bacterial Contamination of Refined Petroleum Products," Prepub Report, Standard Oil Co., Cleveland, Ohio.
267. DeGray, R. J. and L. N. Killian., "Bacterial Slime and Corrosion in Petroleum Product Storage," Industrial and Engineering Chemistry, Vol. 52, No. 12 pp. 74A-76A, Dec. 1960.
268. DeGroote, M. and B. Keiser., Acylated Amino Alcohol Esters of Carbonic Acid, U.S. Patent 2,384,608, Sept. 11, 1945 (to Petrolite Corp., Ltd.)
269. DeGroote, M. and B. Keiser., Breaking Petroleum Emulsions, U.S. Patent 2,468,180, Apr. 26, 1949 (to Petrolite Corp., Ltd.)
270. DeGroote, M. and B. Keiser., Breaking Petroleum Emulsions, U.S. Patent 2,472,573, June 7, 1949 (to Petrolite Corp. Ltd.)
271. DeGroote, M., B. Keiser, and A. F. Wirtel., Demulsifying Agents, U.S. Patent 2,375,530, May 8, 1945 (to Petrolite Corp. Ltd.)
272. DeGroote, M. and B. Keiser., Demulsifiers for Crude-Oil Emulsions, U.S. Patent 2,386,936, Oct. 16, 1945 (to Petrolite Corp. Ltd.)
273. DeGroote, M. and B. Keiser., Ester Amides, U.S. Patent 2,411,957, Dec. 3, 1946. A continuation of U.S. Patent 2,372,254 (to Petrolite Corp. Ltd.)
274. DeGroote, M. and Jen-Pu Cheng., Fuel Oil Compositions, U.S. Patent 2,996,365, Aug. 15, 1961 (to Petrolite Corp. Ltd.)
275. DeGroote, M., Hydroxyacetylated and Oxidized Dimer of 9,11 - linolodiricinolein, U.S. Patent 2,426,489 Aug. 26, 1947 (to Petrolite Corp. Ltd.)
276. DeGroote, M. and B. Keiser., Oxyalkylated Derivatives of Ricinoleic Acid, U.S. Patent 2,401,055, May 28, 1946 (to Petrolite Corp. Ltd.)
277. DeGroote, M. and A. F. Wirtel., Polyhydric Alcohol Esters, U.S. Patent 2,450,333, Sept. 28, 1948 (to Petrolite Corp. Ltd.)

278. DeGroote, M. and O. H. Pettingill, Prevention of the Formation of Petroleum Emulsions, Ger. Patent 1,100,850, Mar. 2, 1961 (to Petrolite Corp. Ltd.)
279. DeGroote, M. and B. Keiser., Quaternary Ammonium Compounds of Pyridine, U.S. Patent 2,348,613, May 9, 1944 (to Petrolite Corp. Ltd.)
280. DeGroote, M. and B. Keiser., Subresinous Esterification Derivatives of Hydroxylated Acylated Diamides, U.S. Patent 2,384,080, Sept. 4, 1945 (to Petrolite Corp. Ltd.)
281. DeGroote, M. and B. Keiser, Sulfosuccinates for Breaking Petroleum Emulsions, U.S. Patent 2,405,737, Aug. 13, 1946 (to Petrolite Corp., Ltd.)
282. DeKock, P.C., "The Hydrocarbon and Fat Metabolism of Proactinomyces opacus," Congr. Biochim., Risumis communis., 2^e Congr., Paris 1952,
283. Delman, A.D., "Antiozonant Chemicals for GR-S Elastomers," New York Naval Shipyard Material Lab. Final Technical Report Project No. 5850-A-1, 6 July 1956. AD-113-755
284. Denekas, M., O. et al., "Materials Absorbed at Crude Petroleum-water Interfaces-Isolation and Analysis of Normal Paraffins of High Molecular Weight," Ind. Eng. Chem., Volume 43, pp. 1165-1169, 1951.
285. Denisov, E. T., "The Specific Action of Inhibitors on the Degenerate Chain Branching Reactions", Zhur. Fiz. Khim., Volume 32, pp. 99-107, 1958.
286. Dewhurst, F. and G. Calcutt., "Non-enzymic Hydroxylation of Polycyclic Aromatic Hydrocarbons," Nature 191(4790) pp. 808-809, 1961.
287. Dickinson, W. and J. Loall., "Oil-water Emulsions: Some Physical Factors Which Determine the Type of Emulsion," Research (London) 1, Suppl. pp. 614-617, 1948.
288. Dieman, E. A., Corrosion-inhibiting Composition U.S. Patent 2,673,161, Mar. 23, 1954 (to Standard Oil Co. of Indiana)
289. Digman, W.J., "Some Effects of Fuel Contamination on Turbine Powered Aircraft," Engineering Paper 1546 presented to Air Force Industry Fuel Systems Maintenance Coordinating Conference, Long Beach, Calif., Jan. 23, 1963.
290. Digman, W. J., "Effects of Fuel Contamination on Corrosion of Aircraft Fuels System," Society of Automotive Engineers, Paper No. 575A, 1962.

291. Dobroshtan, N. I., "Corrosion of the Basic Machinery of Oil Refineries Using the Sulfurous Oils of the Second Baku," Trudy Konferentsii Korrozii Metol, 2, pp. 227-236, 1943.
292. Dodgson, D. P., "The Chemistry of Lubricating Oil and Fuel Additives," Petroleum (London) 21, pp. 119-123, pp. 130, 1958.
293. Doig, K. and A. Wachter., "Bacterial Casing Corrosion in the Ventura Field," Corrosion - Natl. Assn. of Corr. Eng., Volume 7, pp. 212-224, July 1951.
294. Donahue, R. W., "Correlation of Induction Tests with Motor-fuel Stability," ASTM Bull. No. 200. pp. 61-63, 1954.
295. Donahue, T. B., "Microbiological Fuel Contamination and Corrosion," Lockheed Field Service Digest 1, No. 5, pp. 3-13, 1961 (Lockheed Aircraft Corp., California Division, Burbank, Calif.)
296. Donath, E. E. and M. Hess., "Thermally Stable Hydrocarbon Fuels," Chem. Eng. Progress, 56(4) pp. 68-71, 1960.
297. Dostalek, M. and M. Spurny., "Cultivation Characteristics of Desulfurizing Bacteria from Oil Deposits," Ceskoslov. Milrobiol. 1, pp. 158-164, 1956.
298. Dostalek, M. et al., "Effect of Microorganisms on Petroleum Hydrocarbons," Ceskoslov. Milrobiol. 2, pp. 43-48, 1957.
299. Dostalek, M. and J. Knobl., "Ethane Bacteria Found in Petrolic Regions," Prace Ustavu pro Naftovy Vyzkum, Ser. E, No. 14-16, pp. 21-37, 1956.
300. Dostalek, M. and M. Spurny., "Geomicrobiological Oil Prospection. I. Sensitivity of Hydrocarbon Bacteria," (Russian summ.) Folio Microbiol. Prague 7(2) pp. 141-149, 1962.
301. Dostalek, M., "The Assimilation of Gaseous Hydrocarbons by Bacteria," Prace Ustava pro Naftovy Vyzkum, Ser. E, No. 14-16 pp. 5-18 (Russ. and Ger. summ., pp. 19-20) 1956.
302. Douglas, H. W., "Electrophoretic Behavior of Certain Hydrocarbons and The Influence of Temperature Thereon," Trans. Faraday Soc. 39, pp. 305-311, 1943.
303. Dravnieks, A. and H. A. Cataldi., "Industrial Applications of A Method for Measuring Small Amounts of Corrosion Without Removal of Corrosion Products," Corrosion - Natl. Assn. of Corr. Eng. Volume 10, pp. 224-230, July 1954.

304. Drury, J. C., "Investigation of Inhibited Red Fuming Nitric Acid Stored in 17-7PH Steel," Boeing Airplane Co., Seattle, Wash. Document No. D-16974 (Contract AF33(038)19589) 15 June 1955, rev. 28 July 1955. AD-72-377
305. "Drushiva Beograd," (French summ.) Bull. soc. chim. Belgrad, 12, pp. 143-160, 1947.
306. Duffett, N. D. et al., "Normal Bacterial Flora of Cutting Oil Emulsions," J. Bacteriol., 45(1), pp. 37-38, Jan. 1943.
307. van Duijn, C. Jr., "Corrosion Resistance of Zinc," Potech.Tijdschr. 6, pp. 255a-258a, 1951.
308. Dunning, H. M. et al., "Foaming Agents for Tough Gas-well Cleanout," Oil Gas J. 59, No. 49, pp. 167-169, 1961.
309. Durrett, L. R., "Applications of Carbowax 400 in Gas Chromatography," Anal. Chem. 32, pp. 1393-1396, 1960.
310. Dutova, E. N., "Oznachenii sul'fatvosstanavlivayushchikh bakterii dlya poiskov nefi na primere izucheniya podzemnykh vod Srednei Azii" (The Significance of Sulfate-reducing Bacteria in Oil-prospecting After the Example of Studies of the Subterranean Waters of Central Asia), Tr. Inst. Mikrobiol Akad. Nauk SSSR, Vol. 9, pp. 101-104, 1961, (Izv. Akad. Zhur., Biol., 1961, No. 24B341. (Translation).
311. Dworkin, M. and J. W. Foster., "Experiments with some Micro-organisms Which Utilize Ethane and Hydrogen," J. Bacteriol. 75(5), pp. 592-603, 1958.
312. Dyer, D. L., and D. E. Richardson., "Materials of Construction in Algal Culture," Appl. Microbiol. 10(2), pp. 129-131, 1962.

313. Eberhard, R., Coating Compositions, Ger. Patent 745,013 Nov. 25, 1943, (to Friederika Fanny Eberhard).
314. Eberhard, J. F., Corrosion Inhibition, U.S. Patent 2,963,439 Dec. 6, 1960, (to Dow Chemical Co.)
315. Ecke, G. G. and A. J. Kolka., Jet Fuels, U.S. Patent 2,932,942 Apr. 19, 1960, (to Ethyl Corp.)
316. Eckhardt, F. and H. O. Kienze., "New Methods for the Investigation of Hydrocarbons: Gas Chromatography and Infrared Spectroscopy," Erdöl u. Kohle, volume 12, pp. 83-7, 1959.
317. Edgar G. and H. A. Beatty., "Fuel Additives - Problems and Progress," Ind. Eng. Chem., Volume 48, pp. 1853-7, 1956.
318. Edwards, K. B., "Evaluation of External Corrosion Protection Methods for Cold Pipes in a Desert Soil," Technical Note No. N-373, 1 June 1959, Naval Civil Engineering Lab., Port Hueneme, Calif. AD-250-635
319. Edwards, C. W. and B.S.W. Smith, "Chemistry of the Oxidative Metabolism of Certain Aromatic Compounds by Micro-Organisms," Nature, Volume 168, pp. 772-772, Nov. 1951.
320. Eggertsen, F. T. et al. "Analytical Distillation by Gas Chromatography - Programmed Temperature Operation," Anal. Chem., Volume 32, pp. 904-909, 1960.
321. Eggertsen, F. T. and S. Groennings., "Determination of Five-to Seven-Carbon Saturates by Gas Chromatography," Anal. Chem. Volume 30, pp. 20-25, 1958.
322. Eggertsen, F. T. and H. S. Knight. "Effect of Type and Amount of Solvent on Analysis of Saturated Hydrocarbons," Anal. Chem., Volume 30, pp. 15-20 1958.
323. Egloff, G. et al., "The Literature of the Commercial Development of Hydrocarbons Derivable From Petroleum and Natural Gas," Universal Prod. Co., Des Plaines, Ill. Am. Chem. Soc., Advances in Chem., Series No. 10, 360-9 (1954).
324. Eguchi, T., et al. Separation of Aromatic or Naphthene Hydrocarbons From Hydrocarbon Mixtures, Japan Patent 4185 May 28, 1958, (to Nippon Gas Chemical Industries Ltd.)
325. Eickmeyer, A. G., (1/4 to C. M. McKnight) Treating Oil Wells, U.S. Patent 2,452,736 Nov. 2, 1948.
326. Eilerts, C. K. et al., "Field and Laboratory Tests of Sodium Chromates and Alkalies in Gas Condensate Wells, II Theoretical Considerations," World Oil 129, No. 4 pp. 173-174, 176-178, 182, 1949.

327. Eilerts, C. K. et al., "Sodium Chromate as a Corrosion Inhibitor in Gas - Condensate Wells," Oil Weekly, 123, No. 5, pp. 17-22; No. 6, pp. 30-34, 1946.
328. Ekimov, P., "Determining the Surface Tension at the Interface Petroleum - Water," Novosti Neflyanoi Tekj., Neftepromyslovoe Delo, Volume 4, pp. 9-11, 1950.
329. Ekwall, P. T. Rosendahl, and A. Sten., "Bile Acid Salt Solutions. II Solubility of Cholic Acid in Sodium Chololate Solutions and that of Deoxycholic Acid in Sodium Deoxycholate Solutions," Acta Chem. Scand., Volume 12, pp. 1622-1633, 1958.
330. Ekzertsev, V. A., "The Anaerobic Decomposition of Crude Oil by Micro-organisms," Mikrobiologiya Volume 27, pp. 626-33, 1958.
331. Elad, D., "The Photosensitized Amidation of Aromatic Hydrocarbons," Tetrahedron Letters No. 2, pp. 77-79, 1963.
332. Elderfield, R. C., "Proceedings on Jet Fuel Microbiology and Corrosion Conference," PDC, National Research Council, Wash., D.C. April 9-10, 1962.
333. Eldib, I. A., "Nature of Colloidal Materials in Petroleum," J. Chem. Eng. Data, Volume 5, pp. 550-3, 1960.
334. Electro-Quimica de Flix S. A. Corrosion Inhibitors to Prevent the Attack of Metals and Alloys by Chlorinated Hydrocarbons, Span. 209, 722 May 4, 1954.
335. El-Nakeeb, M. A. and H. A. Lechevalier., "Selective Isolation of Aerobic Actinomycetes," Appl Microbiol, Volume 11, pp. 75-77, 1963.
336. Ellis, R. Jr., and R. S. Adams, Jr., "Contamination of Solids by Petroleum Hydrocarbons," Advances in Agron, Volume 13, pp. 197-216, 1961.
337. Elouard, L., Hydrocarbon Fuel, Fr. Patent 859, 310 Dec. 16, 1940.
338. Enderes, G. F. et al., "Polymerization by Oxidative Coupling. Catalytic Specificity in the Copper-Amide-Catalyzed Oxidation of 2,6-Dimethylphenol," J. Organic Chem. Volume 28, pp. 1300-1305, 1963.
339. Erisson, G. L. and M. L. Wulf., "Investigation of Corrosion and Microbiological Degradation in Integral Fuel Tanks," Document No. D3-3629, Feb. 1961, Boeing Airplane Co.
340. Erthal, J. F., "The Effects of Dimetcote No. 3 Coating on Jet Engine Alloys by Contamination of Aircraft Fuels," Naval Air Material Center, Report No. NAMC-AML-AE 4164.1 Feb. 24, 1957.

341. Escoruela, Andres., "Sulfonation of Paraffin Hydrocarbons," Euclides, Volume 6, pp. 80-86, 1946.
342. Essig, R. et. al., "Development of Lead-Resistant Catalysts For the Combustion of Automobile Exhaust," Deut. Kraftfahrtforsch, No. 129, 13 pp., 1959.
343. Esso Research and Engineering Co., Additives for Combustible Organic Liquids, London Patent 876,537 Sept 6, 1961.
344. Esso Research and Engineering Co., Additives for Lubricating and Fuel Oils, Ger. Patent 1,055,159 Apr, 16, 1959.
345. Esso Research and Engineering Co., Attrition Resistant Adsorbents, London Patent Office 855,301 Nov. 30, 1960.
346. Esso Research and Engineering Co., Corrosion Inhibitors For Ferrous Surfaces, Ger. Patent 1,046,440 Dec. 11, 1958.
347. Esso Research and Engineering Co., Fuel and Lubricating Oil Additive Compounds Obtained by Reacting Boron Sulphides or Boron Thioacids with Terpenes or Derivatives Thereof, London Patent Office 791083 Feb. 26, 1958.
348. Esso Research and Engineering Co., Fuel Oils with Improved Stability, Ger. Patent 956,440 Jan. 17, 1957.
349. Esso Research and Engineering Co., Hydrocarbon Separation Process, London Patent Office 844,282 Aug 10, 1960.
350. Esso Research and Engineering Co., Hydrofining of Middle Distillate Feed Stock, London Patent Office 852,868 No. 2, 1960.
351. Ettre, L. S., "Effect of the Surface Area on the Separation in Gas-Liquid Partition Chromatography," J. Chromatog., Vol 4, pp. 166-169, 1960.
352. Ettre, L. S. and N. Brenner., "Simple Accessory to a Commercial Gas Chromatograph for Microcatalytic Studies," J. Chromatog., Volume 3, pp. 524-530, 1960.
353. Evans, U. R., "Recent Work on Corrosion and Oxidation," J. Chem. Soc., pp. 207-14, 1946.

354. Fainman, M. Z., Anticorrosion Compositions, U. S. Patent 2,580,288, Dec. 25, 1951, (to Standard Oil Co. of Indiana) 3
355. Farr, W., "Cytochemical Studies of Fungi Which Contaminate Aircraft Fuels and Deteriorate Materials," AMRL-TOR-62-132, Nov. 1962.; AD-293-226. 3
356. Fiesal, E. V. and E. O. Bennett, "The Effect of Water Hardeners on the Growth of Pseudomonas aeruginosa in Metal Cutting Fluids." J. Applied Bacteriol. 24 (2): 125-130, 1961. 3
357. Feldman, N., et. al., Method for Detecting Dispersed Water in Hydrocarbons, U. S. Patent 2,968,940, Jan. 24, 1961, (to Esso Research and Engineering Co.). 3
358. Ferner, R. R., "The Biological Decomposition of Naphthenic Acids in a Refinery Effluent Stream," World Petroleum Congress, Proc., 5th, N.Y., 7, 32-42 (Published 1960). 3
359. Fernly, H. N., and W. C. Evans, "Oxidative Metabolism of Polycyclic Hydrocarbons by Soil Pseudomonads," Nature, Vol. 162, pp. 373-375, Aug. 1958. 3
360. Ferri, A., "Anticorrosive Action of Emulsifying Oils," Chimica e Industria, (Milan) 33, 477-9 (1951) 3
361. Fetterly, L. C., Low-temperature Jet Fuel, U. S. Patent 2,630,405, Mar. 3, 1953, (to Shell Development Co.) 3
362. Fialkov, Y. A., and L. M. Sol'ts, "Utilization of Wastes of Ishimbai Petroleum as Bases for Ointments and for the Preparation of Petrolatum. II. Preparation of Petrolatum," Farmatsiya 7, No. 2, pp. 21-3, 1944. 3
363. Fidler, F. A., et. al., "Fuel Mixture for Preventing Icing of Aircraft Turbines," German Patent 1,032,598, June 19, 1958. (to British Petroleum Co., Ltd.) 3
364. Field, F. H. and S. H. Hastings, Analysis Method, U. S. Patent 2,962,588, Nov. 29, 1960 (to Esso Research and Engineering Co.) 3
365. Fields, J. E. and G. W. Zopf, Jr., Non-corrosive Fuels, U. S. Patent 2,421,843, Jan. 19, 1960 (to Monsanto Chemical Co.) 3
366. Fingrut, I., "Losses of Hydrocarbon Gases in Oil-refinery Storage Tanks," Gazovay a Prom. 1957, No. 1, pp. 31-3. 3
367. Finnerty, W. R., et. al., "Alkane-Oxidizing Micrococci," Zeitschrift für Allg. Mikrobiol. 2 (3): pp. 169-177, 1962. 3
368. Finnerty, W. R., et. al., "Utilization of 1-Alkyl hydroperoxides by Micrococcus certifiicans," Zeitschrift für Allg. Mikrobiol. 2 (4): pp. 263-266, 1962.

369. Firminger, J., "Liquid Fuel Additives," Iron and Steel, (London) 30, pp. 642-644, 1957.
370. Fischer, J. C., Jr. and B. W. Floersch, Development of a Decorroder Unit, Ryan Aeronautical Co., San Diego, Calif., Final Test Report No. 5717-2, March 15, 1954, contract AF 33 (600) 8421.; AD-63 177.
371. Fischer, P. W. and V. N. Jenkins, Corrosion Resisting Turbine Oil, U. S. Patent 2,388,132, Oct. 30, 1945 (to Union Oil Co. of California).
372. Fitzgibbons, W. O., et. al., Fuel Contamination Problem-Lockbourne Air Force Base-Feb. 28-Mar. 3, 1962. Standard Oil Co., Cleveland, Ohio May 24, 1962.
373. Foley, R. T. and M. Davison, The Corrosion of Aluminum Under Condensing Conditions Part II Report No. R56GL7, Jan. 16, 1956, General Electric, Schenectady, N. Y.
374. Foreign Tech. Div., A. F. S. C., W-P A. F. B., The Chemistry of Organic Sulfur Compounds Contained in Petroleums and Petroleum Products (Selected Articles), Jan. 25, 1962 (Translation).; AD-295-791
375. Fort, B. F., Jr., Adsorption Process, U. S. Patent 2,353,901, Nov. 4, 1958 (to Texas Co.).
376. Foster, J. W., "Hydrocarbons as Substrates for Microorganisms," Antonie van Leeuwenhoek J. 28: 241-247, 1962.
377. Foster, R. H. and S. T. Stoy, Study of Liquid Oxygen Contamination, Jan., 1961, Progress Report No. 6, project 3148, contract AF 33 (616) 6730, Air Products and Chemicals, Inc., Allentown, Pa.; AD-271-373.
378. Fowkes, F. M. and F. G. Bollo, Jet Fuels, U. S. Patent 2,933,382, April 19, 1960 (to Shell Oil Co.).
379. Fowler, B. T., Improved Fuels, London Patent 846,512, Aug. 31, 1960 (to Esso Research and Engineering Co.).
380. Frances, S., "Control of Microbial Growth in Aviation Fuels," paper read at the Aviation Technical Service Committee meeting of the American Petroleum Institute, Jan. 31, 1961.
381. Franke, G., "Mass-Spectrometric Hydrocarbon Group Analysis of Gasoline. II. The Olefinic Products." Erdöl u. Kohle 13, 850-852, 1960.
382. Frederick, S. H. and T. F. Eden, "Corrosion Aspects of the Vanadium Problem in Gas Turbines." Proc. Inst. Mech. Engrs. (London), 168, 125-34, 1954.

383. Freeborn, J. P., Electrochemical Test for Evaluating Synthetic Rubber and Flame Retarded Thiokol for Underwater Usage Development, Report No. R-349, May, 1957, Material Labs., Puget Sound Naval Shipyard, Bremerton, Wash.; AD-145-504
384. Freedman, A. J., et.al., "An Electrical Resistance Method of Corrosion Monitoring in Refinery Equipment," Corrosion, National Assn. of Corr. Eng., Vol. 14, April, 1958, pp. 29-32.
385. Freeman, B., The Use of Color Indicator Dyes for Detecting Titan II Propellant Contamination in Texaco PT Antifreeze Water Solutions, Report No. ME 151, 25 Oct. 1961, Martin-Marietta Corp., Denver, Colo. AD-284-747
386. Friend, W. Z. and Z. L. LaQue, "Corrosion-Resisting Nickel Alloys and Chemical Progress," Ind. Eng. Chem. 44, 965-71, 1952.
387. Freund, M., et.al., "Formation of Hydrocarbon-urea Adduct Grains," Technologia RAU. ROC. 3 (11), Cis 7, pp. 193-199, July 1961.
388. Fuhs, G. W., "The Microbial Degradation of Hydrocarbons," Arch. Mikrobiol. 39, 374-422, 1961.
389. Fukushima, T. and T. Ichimura, "Properties of Crude-oil Emulsions. IV Interfacial Tensions of Crude Oil and Water," J. Chem. Soc. Japan, Ind. Chem. Sect. 57, 328-30, 1954.
390. Fukushima, T., "Some Problems of Surface Activity in the Petroleum Industry," Abura Kagaku 5, 331-7, 1956.
391. Funasaka, W., et.al., "Liquid Fuels," Ibid., 953-7, 1957.
392. Furusaka, C., "Sulphate Transport and Metabolism by Desulphovibrio desulphuricans," Nature, Vol. 192, pp. 421-429, Nov. 1961.

393. Gaponenkov, T. K. and Z. I. Protsenko, "Degradation of Pectin Compounds by Enzymes of Microorganisms and the Chemical Character of Final Products," Mikrobiologiya, Vol. 29, p 668-72 (1960).
394. Gardner, L. and G. Topol, "A New Method for the Determination of Undissolved Water in Fuels," Materials Research & Standards, Vol. 1, No. 2, pp. 112-15 (1961).
395. Garrett, W. D. and J. A. Krynitsky, "Determination of Water in Jet Fuels and Hydrocarbons," N. R. L. rept. No. 4997, Sept. 1957; AD-143-376.
396. Gasiorowski, K., "Sedimentation in Fuel Oil," Olfeuerung, pp. 44-8, 1958.
397. Gaudin, A. M. and N. S. Davis et. al., "Concentration and Separation of Microorganisms," Semi-annual rept. M. I. T. Sept. 59 - Feb. 60; AD-239-081.
398. Gauze, G. F., "Litmocidin, A New Antibiotic Formed by Proactinomyces," Mikrobiologiya, Vol. 15, pp. 267-71, (1946).
399. Gavrilov, B. G. and L. P. Danilova, "Determination of the Composition of Aromatic Hydrocarbons in Kerosine by Sulfonation," Izvest. Vysshikh Ucheb. Zhvedeniil Neft i Gaz, No. 8, pp. 93-8 (1961).
400. Gaynor, A. and G. M. Platz et al., "Dehydration of JP-4 Fuel," Am. Chem. Soc., Div. Petrol. Chem., Preprints, Vol. 5, No. 4, pp. C117-C123 (1960).
401. Geerlings, H. G. and J. C. Jongbreur., "Corrosion in Oil Refinery Equipment," Petroleum, Vol. 24, pp. 142-3 (1961).
402. Geigy, J. R. "Improvements Relating to the Stabilization of Organic Material Normally Subject to Oxidative Deterioration," London Patent Office 871,196, June 21, 1961.
403. General Dynamics, "Microbiological Corrosive Effects on Structural Materials Used in Aircraft Fuel Tanks," Report FRP-008 Issue No. 2, May 1963.
404. General Mills, Inc., "Process for the Inhibition of Metallic Substances," London Patent Office 847,321, Sept. 7, 1960.
405. George, Marilyn E., "Detection of Microbial Contaminants in JP-4 Fuels," AMRL Memorandum M-26, January 1963.
406. George, M. F., Jr., and E. U. Kleber., "Stripping Agent for Polysulfide Elastomer Coatings," U.S. Patent 2,548,718 (to Lockheed Aircraft Corp.) April 10, 1951.

407. Gerbes, O., Inhibiting Corrosion, U. S. Patent 2,485,276 (to Standard Oil Development Co.) Oct. 18, 1949.
408. Giammaria, J. J., Phosphorus and Sulfur Organic Compounds, U. S. Patent 2,449,933, Sept. 21, 1948, (to Socony-Vacuum Oil Co., Inc.)
409. Gilbert, B. L. and J. L. Kolinsky, "Application of Radioisotope Tracer Techniques to the Investigation of Interaction of Zinc and Jet Fuel," Final Technical Research and Development Rept. Dec. 23, 1955, (Material Lab., N. Y. Naval Shipyard); AD-87-078.
410. Gilbert, C. L., "Surface-active Agents from Petroleum," The Science of Petroleum V Pt II, Sec I, Synthetic Products of Petroleum (Oxford University Press), 1953, p. 89.
411. Ginzburg - Karagicheva, T. L., "The Microbiology of Petroleum," Priroda Vol. 3, pp. 26-31, 1958.
412. Girelli, A., "Chemical Composition and Origin of Petroleum," Riv. Combustibili, Vol. 11, pp. 493-503, 1957.
413. Glassmire, W. F. and W. R. Smith, Inhibiting Corrosion of Aluminum Chloride-hydrocarbon Complex Liquid in Presence of Hydrochloric Acid Promoter with Iodine Compounds, U. S. Patent 2,586,323, Feb. 19, 1952 (to Texas Co.).
414. Gleim, W. K. L., Preparation of Compounds Used in the Stabilization of Organic Compounds, U. S. Patent 2,850,534, Sept. 2, 1958 (to Universal Oil Products Co.).
415. Gleim, W. K. L. and R. B. Thompson, α -Quinonylidene- β -(hydroxyaryl) Ethyl- β -phosphoric Acid Ester, U. S. Patent 2,969,378, Jan. 24, 1961 (to Universal Oil Products Co.).
416. Gluesenkamp, E. W. and M. Kosmin, High-energy Jet Fuels, U. S. Patent 2,910,426, Oct. 27, 1959 (to Monsanto Chemical Co.).
417. Golden Gate Paint and Varnish Products Club, "Primers for Mg and Al Alloys," Am. Paint J. 29, No. 5B, pp. 18-19 (1944).
418. Gooding, R. M., "Petroleum Conversion by Bacterial Action (Prevention of Pollution of the Seas by Oil)," U. S. Dept. of the Interior, Bureau of Mines, Oct. 3, 1962, Research Proposal No. 3675.
419. Gordon, S., "Theoretical Rocket Performance of JP-4 Fuel with Several Fluorine-oxygen Mixtures Assuming Equilibrium Composition," Natl. Advisory Comm. Aeronaut. Research Mem., No. E57K22, pp. 1-69 (1958).
420. Gottshall, R. I. and H. W. Swain, Auxiliary Fuels, U. S. Patent 2,988,434, June 13, 1961 (to Gulf Oil Corp.).

421. Graham, B. and H. S. Turner, N-Alkoxymethyl Polymide Coatings, U. S. Patent 2,443,450, June 15, 1948 (to E. I. du Pont de Nemours & Co.).
422. Graham, G. W. and G. R. Lusby, Inhibition of Corrosion Effect of Halohydrocarbons, Can. 601,668, July 12, 1960 (to Canadian Industries Ltd.).
423. Graham, A. E. et. al., "Methods and Materials for Protection of Underground Pipe Lines", Am. Ry. Eng. Assoc. Bull., Vol. 490, pp. 225-9 (1950).
424. Graham, J. W., F. M. Perkins, Jr., et. al., Detection of Hydrocarbons in Underground Earth Formations, Germany 1,089,085, Sept. 15, 1960 (to Jersey Production Co.).
425. Greblich, J. L. and T. P. Whaley, Fuel Additive for Afterburners of Jet Engines, U. S. Patent 2,927,849, March 8, 1960 (to Ethyl Corp.).
426. Greblich, J. L. and T. P. Whaley, Metal Dispersions, U. S. Patent 2,927,849, March 8, 1960 (to Ethyl Corp.).
427. Green, H. A., Corrosion Preventive Composition, U. S. Patent 2,900,262, Aug. 18, 1959 (to Quaker Chemical Products Corp.).
428. Greenlee, S. O. and F. C. Kraatz, "Wax-type Protective Coatings for Industry," Chemistry in Canada, Vol. 4, No. 4, pp. 47-51 (1952).
429. Greenwell, H. E. et. al., "Current Status of Corrosion Mitigation Knowledge on Sweet Oil Wells," Corrosion Vol. 11, No. 10, Tech. Comm. Activities 61-3 (1955).
430. Gregg, Geo. W., Emulsifiable Hydrocarbon Oils, U. S. Patent 2,423,144.
431. Greve, W., A. Müller, et. al., "The Microbiology of Petroleum Deposits Flooded with Water," Lintr. Bokteriol Pacasitenk, Abt II, No. 110, pp. 82-106 (1957).
432. Griesinger, W. K., Purification of Oil-soluble Sulfonates, U. S. Patent 2,406,763, Sept. 3, 1946 (to Atlantic Refining Co.).
433. Griswold, J., J. W. Morris, et. al., "Pure Hydrocarbons From Petroleum. Development of Laboratory Pilot-plant Screen-plate Fractionating Columns," Ind. Eng. Chem., Vol. 36, pp. 1119-23, (1944).
434. Gross, W. F. and H. W. Andrews, "Prevention of Corrosion in Sour Wells with Organic Inhibitors," Oil Gas Journal, Vol. 47, No. 26, pp. 76-9, (1948).

435. Grossman, J. P. and J. R. Postgate, "Cultivation of Sulfate-reducing Bacteria," Nature, Vol. 171, pp. 600-602, April 1953.
436. Gudzinowicz, B. J. and W. R. Smith, "High Temperature Gas-Liquid Chromatography," Anal. Chem. Vol. 32, pp. 1767-71 (1960).
437. Gulf Oil Corp., Additive for Jet-engine Fuel, Brit. 789,778, Jan. 29, 1958 (to Gulf Oil Corp.).
438. Gulf Oil Corp., Alkylammonium Dialkyl Phosphates as Corrosion Inhibitors, Brit. 791,187, Feb. 26, 1948 (to Gulf Oil Corp.).
439. Gulf Oil Corp., Amine Salts of Dioxo-octyl Orthophosphates and Compositions, London Patent Office 791,187, Feb. 26, 1955 (to Gulf Oil Corp.).
440. Gulf Oil Corp., Jet Engine Fuel, London Patent Office 789,778, Jan. 29, 1958 (to Gulf Oil Corp.).
441. Gulyaeva, L. A. and E. S. Itkina, "The Oxidation-reduction Potential and pH of Crude Oils," Novosti Next. Tekh., Geol. No. 1, pp. 42-5 (1959).
442. Gurok, G. A., "Electric Determination of Moisture in Petroleum Products in the Presence of Dissolved Salts," Uchenye Zapiski Moskov. Oblast. Pedagog. Inst., Vol. 33, pp. 255-73 (1955).
443. Gurovich, E. I. and A. S. Sosnina, "Corrosion in Sea Water of Steel Coated with Films of Petroleum Bitumens," Ivest. Akad. Nauk S. S. S. R., Otdel Tekh. Nauk, No. 4, pp. 172-3 (1957).
444. Gurvich, M. M., "The Structure of Acid Sludge," Trudy Khim. Inst. Azerbaidzhan. Filirla Akad. Nauk, Vol. 4, No. 1, pp. 3-14 (1940) Khim. Referot. Zhur., Vol. 4, No. 9, p. 121 (1941).
445. Guynes, G. S. and E. O. Bennett, "Bacterial Deterioration of Emulsion Oils I. Relationship Between Aerobes Sulfate Reducing Bacteria in Deterioration," Appl. Microbiol. Vol. 7, pp. 117-121 (1959).

446. Hackerman, N. and D. A. Shock, "Corrosion in Condensate Gas Wells" World Oils, No. 7, 198, 200, 202, 204, 206, (1947).
447. Hager, K. F. and M. Rosenthal, Camphoric Acid Salts as Inhibitors for Water-soluble Fuels, U. S. 2, 715, 572, Aug. 16, 1955 (to United States of America, as represented by Secy. of the Army).
448. Haley, C. A. C., "Neuere Entwicklungen Auf Dem Gebiet Der Petrochemie," Sonderdruck aus der Zeitschrift kunststoffe 50 (1): 27-32, Jan. 1960.
449. Hallsworth, E. G., "Corrosion of Steel by Fertilizer," Soc. Chem. Ind. 63, 95, 1944.
450. Hamilton, E. L., "A Compilation of Data from Evaluations of the Fungus Resistance Properties of Air Force Materials," (WADC Technical rept. No. 55-72 53 p, Materials Lab., Wright Air Development Center, Wright-Patterson Air Force Base, Ohio, Apr. 55.; AD-75-796.
451. Hamilton, W. S., "Status Report of Fuel Contamination Investigation," Boeing Internal rept. on aircraft insp. No. 2-4165, March 14, 1961.
452. Hann, P. D., Combined Solid Absorbent and Liquid Absorbent, No. 2, 956, 015, Oct. 11, 1960.
453. Hanna, A. E., "Deterioration of 600-Volt Cable Sheaths by Flotation - Type Corrosion Inhibitors," Final rept (Tech. rept. No. 162) 29 p, Naval Civil Engineering Lab., Port Hueneme, Calif., 9 Oct. 61.; AD-265-782.
454. Hannah, A., Aluminum Etching Composition and Method, No. Drawing 2, 942, 955, June 28, 1960 (to Wyandotte Chemicals Corporation, Wyandotte, Michigan).
455. Hansen, F. R., "Preparation of Heat and Radiation Resistant Chemicals for Diene Rubbers," Final rept. 41 p, (Proj. TB4-004-1) Ferro Chemical Corp., Bedford, Ohio 21 Oct 60.; AD-245-670L.
456. Hansen, R. W. and R. E. Kallio, Inability of Nitrate to Serve as a Terminal Oxidant for Hydrocarbons, Science 125 (3259): 1198 - 1199, 1957.
457. Hansley, V. L. and W. J. P. Hilts, Alkali Metal Dispersions, U. S. 2, 579, 257, Dec. 18, 1951 (to E. I. du Pont de Nemours and Co.).
458. Harden, Gail D. and W. J. Curry, Inhibition to Corrosion, U. S. 2, 550, 997, May 1, 1951 (to Shell Development Co.).
459. Harding, C. T., Recovery of Hydrocarbon Oils from Solid Minerals, U. S. 2, 379, 077, June 26, 1945 (to Standard Oil Development Co.).

460. Harle, O. L. and J. R. Thomas, "Inhibition of Oxidation. I. Kinetics of the Oxidation Period," Am. Chem. Soc., Div. Petrol. Chem., Preprints 2, No. 1, 43-9 (1957).
461. Harris, J. O., "Bacterial Activity at the Bottom of Back-Filled Pipe-Line Ditches," Corrosion 16, 149t-154t (1960).
462. Harris, J. O., "Pipe-Line Coatings as Growth Substrates for Soil Bacteria " Bacteriol..Proc., p. 25, 1958.
463. Harris, J. O., "Respiration Studies of a Micrococcus Capable of Oxidizing Hydrocarbons," Arch. Biochem. and Biophys. 70(2): 457-463.(1957).
464. Harvey, C. C., Nitrate Formulations, No. Drawing 2, 742, 492, April 17, 1956 (assignor to Ethyl Corporation, New York, N.Y.).
465. Hastings, S. H., J. A. Anderson, Jr., and A. T. Watson, Recovery of Pure Hydrocarbons, U. S. 2, 693, 495, Nov. 2, 1954 (to Standard Oil Development Co.).
466. Hawes, R. J., F. M. Miller, and R. H. Stephens, Fuels for Jet Engines, U. S. 2, 628, 189, Feb. 10, 1953 (to Tide Water Associated Oil Co.).
467. Hawkins, W. L. and M. A. Worthington, "Novel Thermal Antioxidants Formed by the Interaction of Sulfur Compounds with Conjugated Systems," Chem. and Ind. (London) 1960, 1023-4.
468. Hay, A. S., "Oxidative Coupling of Acetylenes." J. Org. Chem. 25, 1275-6 (1960).
469. Hayaishi, O., "Biological Oxidations." Ann. Rev. Biochem. 31:25 46, 1962.
470. Hazlett, F. P., Purification of Aromatic Hydrocarbons. U. S. 2, 691, 054, Oct. 5, 1954 (to Jones and Laughlin Steel Corp.).
471. Hazzard, G. F., "Contribution to Discussion at Society of Automotive Engineers," Automotive Engineering Congress, Detroit, Michigan. 8 p, 18 Jan. 63.; AD-298-175.
472. Hazzard, G. F. and E. C. Kuster, "Fungal Growths in Aviation Fuel Systems. Part 2. Test Methods," (Rept. No. 252) 14 p, Defence Standards Lab. (Australia) Dec. 62.; AD-298-174.
473. Heaberlin, C. L., J. M. Fraser, and J. Walker., "Impurities Show up as Tiny White when Viewed by This 'Magic' Black Box," Oil Gas J. 58, No. 29, 121-3 (1960).
474. Heath, D. P., Jet Combustion Fuel, U. S. 2, 501, 124, Mar. 21, 1950 (to Socony-Vacuum Oil Co., Inc.).

475. Heidt, Peter, Treatment of the Interior of Tanks (Such as Cargo Tanks for Various Oils or Fats) to Avoid Corrosion, as from the Action of Acids Present or Formed in the Soil, U. S. 2, 330, 051, Sept. 21. (to Meyer A. Mathiasen).
476. Heinemann, W., "Analysis of Hydrocarbon Mixtures in the Gasoline Range by Chromatography," Erdoel u. Kohle 14, 21 (1961).
477. Helm, R. V., D. R. Latham, C. R. Ferrin, and J. S. Ball, "Identification of Carbazole in Wilmington Petroleum Through Use of Gas-Liquid Chromatography and Spectroscopy," Anal. Chem. 32, 1765-7 (1960).
478. Helson, V. A. and W. H. Minshall, "Effects of Petroleum Oils on the Carbon Dioxide Uptake in the Apparent Photosynthesis of Parsnip and Mustard," Canadian J. Botany 40(6): 887-896, 1962.
479. Hendey, N. I., "Observations on the "Kerosene Fungus" and Its Possible Role in the Corrosion of Aluminum Alloy Fuel Tanks," Rept. No. A/9(C), 15 p, Admiralty Materials Lab. (Gt. Brit), July 1962. AD-290-648.
480. Hendey, N. I., Fungal Growths in Hydraulic Systems at Royal Aircraft Establishments, Bedford Admiralty Materials Lab., Holton Heath, Poole, Dorset AML Report No. A/12 (C) August 1962.
481. Henery, Ruth B., "Compilation of References on Microbiological Contamination of Fuels," 42 p, Armed Services Technical Information Agency, Arlington, Va., 1 Nov. 61.; AD-266-000.
482. Henke, A. M. and H. C. Stauffer, Molecular-Sieve Absorption Process for Separating Aromatic and Paraffinic Hydrocarbons, U. S. 2, 940, 926, June 14, 1960, (to Guld Research and Development Co.).
483. Henry, J. C., "Properties of JP-4 Jet Fuel," WADD TR 60-57, Jan. 1960.
484. Hersh, J. M., Corrosion-Inhibiting Lubricant Additive, U. S. 2, 688, 013, Aug. 31, 1954, (to Continental Oil Co.).
485. Hess, H. V. and E. R. Christinsen, Special Solid Absorbent Material, U. S. 2, 859, 257, Nov. 4, 1958, (to Texas Co.).
486. Hess, H. V. and E. R. Christinsen, Treating Petroleum Fractions with Molecular - Sieve Absorbents, U. S. 2, 859, 173, Nov. 4, 1958, (to Texas Co.).
487. Heydeman, M. T., "A Paraffin - Utilizing Pseudomonad," Biochim. et Biophys. Acta 42, 557-8 (1960).
488. Heyes, T. D., "Gas-Liquid Chromatography Applied to Analysis of Oils and Fats," Chem. and Ind. 17, 660, 1963.

489. Hibbard, R. R., "Low-Molecular-Weight Hydrocarbons as Jet Fuels," Am. Chem. Soc., Div. Petro. Chem., Preprints 5, No. 4, C5-C17 (1960).
490. Higuchi, K., T. Osa, and T. Takeuchi, Selective Separation of Aromatic Hydrocarbons by Extraction, Ger. 1, 093, 936 (Cl.23b). Appl. July 18, 1959; Japan July 18, 1958.
491. Hill, E. F. and Margaret L. Welp, Synergistic Antioxidants. U. S. 2, 657, 982, Nov. 3, 1953 (to Ethyl Corp.).
492. Hinkamp, J. B., Aluminum Borohydride, U. S. 2, 657, 975, Nov. 3, 1953, (to Ethyl Corp.).
493. Hirokawa, T., "Standard Specifications and Test Methods for Fuel Oils," Shoseki Giko 4, 85-93 (1960).
494. Hirschler, A. E. and T. S. Mertes, "The Separation of Aromatic Hydrocarbons by Selective Adsorption." Chem. Petroleum Hydrocarbons 1, 155-96 (1954).
495. Hishta, Charles, John P. Messerly, and Robert F. Reschke, "Gas Chromatography of High-Boiling Compounds on Low-Temperature Columns," Anal. Chem. 32, 1730-3 (1960).
496. Hoar, T. P. and T. W. Farrell, "The Anodic Characteristics of Mild Steel in Dilute Aqueous Soil Electrolytes," Corrosion Science, Vol. 2, pp 227-229, 1962. (Pergamon Press Ltd., Printed in Gt. Brit.).
497. Hodgson, G. W. and E. Peake, Metal Chlorin Complexes in Recent Sediments as Initial Precursors to Petroleum Polphyrin Pigments, Nature 191 (4790); 765-777, 1961.
498. Hodgson, G. W. and B. Hitchon, "Primary Degradation of Chlorophyll Under Simulated Petroleum Source Rods Sedimentation Conditions," Bull. Am. Assn. Petroleum Geologists 43 (10): 2481-2492, 1959.
499. Hodgson, G. W. and B. L. Baker, "Geochemical Aspects of Petroleum Migration in Pembina, Redwater, Jaffre, and Lloyd - Minister Oil Fields of Alberta and Saskatchewan, Canada," Bull. Am. Assn. Petroleum Geologist, Vol. 43, No. 2, pp 311-328, Feb. 1959.
500. Hooper, J. H. D., and D. F. McAllan, Fuel Mixtures for Aircraft Turbine Engines, Ger. 1,028,383, Apr. 17, 1958 (Cl. 46a 5).
501. House, P. A., "Improving the Resistance of Integral Fuel Tank Coating Material to Fuel Anti-Icing Additive," Rept. June 59-Feb. 60 on Aviation Fuels, 24 p (Proj. 3048), Directorate of Materials and Processes, Aeronautical Systems Div., Wright-Patterson AF Base, Ohio (Feb. 1960). AD-276-821.

502. Huckleberry, S. A., "Oil-Well Corrosion can be Licked," World Oil 140, No. 5, 252, 254 (1955).
503. Huges, E. C., "Two Companies Report on How Additives Resulted in Better Burning, Less Corrosion, from Residual Fuel Oil," Oil Gas J. 53, No. 11, 90-2 (1954).
504. Hughes, W. B., Compounds Containing the Imidazoline and Imidazolidone or Imidazolidinethione Groups, No. Drawing 2, 895, 961, July 21, 1959, (assignor to Cities Services Research and Development Company, New York, N.Y.).
505. Hughes, W. B. and B. Heinze, Corrosion Inhibits for Oil-Brine Mixtures, U. S. 2,643,227, June 23, 1953, (to Cities Service Oil Co.).
506. Hughes, W. B., Method of Inhibiting Corrosion of Metals, No. Drawing 2,836,558, May 27, 1958, (assignor to Cities Service Research and Development Company, New York, N.Y.).
507. Hughes, W. B., Method of Inhibiting Corrosion of Metals, No. Drawing 2, 793,997, May 28, 1957, (assignor to Cities Service Research and Development Company, New York, N.Y., a Corp. of New Jersey).
508. Hutton, Charlotte C., "Bibliography on Jet Fuel Contamination - Decontamination Studies on Fuels," AD-337-130.
509. Hvid-Hansen, N., "Sulfate-Reducing Hydrocarbon-Producing Bacteria in Ground Water," Acta Path. Microbiol. Scand. 29, 314-34 (1951).

510. Ingram, M., "Influence of Carbon source on the Resistance of a Yeast to Benzoic Acid," Ann. Inst. Pasteur Lille Vol. 11, pp. 167-78, 1960.
511. Irimescu, I. and I. Mitran., "The Determination of the Antioxidant Properties of Oxidation Inhibitors," Petrol. si gaze (Bucharest) Vol. 6, pp. 478-84, 1955.
512. Isabel, H.S., "Analytical Standards for Trace Elements in Petroleum Products," National Bureau of Standards Monograph 54, Oct. 1, 1960.
513. Isachenko, B.L., "Sulphur Bacteria from Oil Wells," Mikrobiologiya Vol. 15, pp. 458-90, 1946.
514. Isenberg, D.L. and E.O. Bennett., "Bacterial Deterioration of Emulsion Oils," Appl Microbiol Vol. 7, p. 121, 1959.
515. Isenberg, D.L., "Microbial Desulfurization of Petroleum," Dissertation Absts Vol 22, p.10, 1962.
516. Ishikura, T. and J.W. Foster, "Incorporation of Molecular Oxygen During Microbial Utilization of Olefins," Nature, Vol. 192, p 892, 1961.
517. Ivanov, K.I. and E.D. Vilyanskaya, "Mechanism of Inhibitor Action in the Liquid-Phase Oxidation of Petroleum Hydrocarbons," Akad. Nauk S.S.S.R. pp. 260-72, 1955.
518. Ivanov, K.I. and E.D. Vilyanskaya, "Reaction of Inhibitors of Autoxidation of Hydrocarbons with Alkyl and Peroxide Radicals," Doklady Akad. Navk. S.S.S.R. Vol. 121, pp. 107-10, 1958.
519. Ivanov, K.I. and E.D. Vilyanskaya, "The Action of Inhibitors on The Kinetics of the Autoxidation of Hydrocarbons," Akad. Navk S.S.S.R., Inst. Khim. Fiz., Sbornik Statei, pp. 77-93, 1959.
520. Ivanov, M.V., "The Role of Microorganisms in the Genesis and Transformation of Sulfur Deposits," Zhur. Obshchei Biol., Vol. 21 (1) pp. 3-11, 1960.
521. Ivanov, V.I. "The Use of Bacterial Methods in Concentrating Non-Ferrous Metal Ores," Trudy Inst. Mikrobiol. Akad Navk S.S.S.R. Vol. 9, pp. 144-46, 1961.

522. Jacklin, C., et. al., "Fireside Deposits in Oil Boilers," Ind. Eng. Chem. 48, pp. 1931, 1956.
523. Jahn, E. J., Corrosion-protective Compositions Applicable in Some Cases as Lubricants, British Patent 560,286, Mar. 29, 1944 (to Shell Development Co.).
524. Jahr, K. F. and J. Fuchs, "A New Method for Determining Moisture in Organic Solvents," Z. Naturforsch. 14b, pp. 471-472, 1959.
525. James, A. T. and A. J. P. Martin, "Gas-liquid Chromatography: A Technique for the Analysis and Identification of Volatile Materials," Brit. Med. Bull. 10 (3), pp. 170-176, 1954.
526. James, N., "Plate Counts of Bacteria and Fungi in a Saline Soil," Can. Jour. Microbiol. 5, pp. 431-439, 1959.
527. James, R. R., "Development of Oil-resistant Coating for Natural Rubber Mountings," Rubber Lab., Mare Island Naval Shipyard, Vallejo, Calif. Technical Report No. 9-68, 21 Sept. 1956; AD-145-304.
528. Jaworski, M., "Use of Gas Chromatography in the Petrochemical Industry," Przemysl Chem. 41, pp. 14-17, 1962.
529. Jentzsch, D. and K. Friedrich, "Gas-Chromatographic Procedures. I. Use of a Flame Ionization Detector," Z. Anal. Chem. 180, pp. 96-109, 1961.
530. Johansson, S. C., Rust-Inhibiting Oil Composition, U. S. Patent 2,432,901, Dec. 16, 1947.
531. Johnson, C. R., et. al., "Stability of Aircraft Turbine Fuels," Ind. Eng. Chem. 46, pp. 2166-2173, 1954.
532. Johnson, F. H. et. al., "The Bacterial Oxidation of Hydrocarbons," J. of Cellular and Comp. Physiology 19 (2), pp. 163-172, April, 1942.
533. Johnson, L., "Evaluation of Corrosion Characteristics of 2014 Aluminum Alloy in Dissimilar Metal Contact with Stainless Steel," Martin Marietta Corp., Denver, Colo. Report No. ME70, 19 April 1961 (IDEP Report No. 502. 20. 10. 80-F3-01); AD-273-914.

534. Johnson, R. E., "An Evaluation of Volatile Corrosion Inhibited Oils for the Internal Preservation of Machine Tools in Uncontrolled Storage," Rock Island Arsenal Lab., III. Proj. No. TB5-4; Report No. 59-2929, 13 Nov. 1959; AD-232-438L
535. Johnson, R. K. and J. P. Cuellar, Jr., "Effect of Jet Fuel Additives on Filterability and Water Separation Characteristics," Southwest Research Inst., San Antonio, Tex. Report on Aviation Fuels, (Proj. 3048, Contract AF33 (600)39425) June, 1961; AD-264-607
536. Jolley, L. J., "Fuel and Power," Repts. Progr. Appl. Chem. 44, pp. 3-15, 1959 (Pub. 1960).
537. Jones, C. H. Keymer, "Synthetic Washing Agents," Soap Perfumery Cosmetics 17, pp. 419-420, 1944.
538. Jones, L. W. and J. P. Barrett, "Laboratory Development of Corrosion Inhibitors," Corrosion 11, pp. 217t-220t, 1955.
539. Jones, P. J., Petroleum Production. Vol. V., "Oil Production by Gas and Flooding," New York: Reinhold Pub. Corp., 1949 (281 pp.)
- 539a. Diesel Fuel Oils, New York: Am. Soc. Mech. Engrs., 1948 (128 pp.).
- 539b. Laboratory Test Methods for Petroleum and its Products, 3 rd ed., Chicago: Universal Oil Products Co., 1948.
540. Jones, R. H., Lubricating Oil Additives, U. S. Patent 2,765,277, Oct. 2, 1956 (to Esso Research and Engineering Co. of Delaware).
541. Jones, R. J. and D. J. Colasito, "Production of a Glucose Polysaccharide by a Pseudomonas sp. from n-alkane Carbon Sources," Bacteriol. Proc., pp. 23, 1963.
542. Jordan, C. B., "Storage of Ethylene Glycol With Various Inhibitors," Coating and Chemical Lab., Aberdeen Proving Ground, Md., Report No. CCL100, 14 Mar. 1961; AD-254-0031.
543. Joyner, R. S. et al., "Short Cut Complex Columns," Petrol. Chem. Engr. 34, No. 2, pp. 31-33, 1962.
544. Justice, W. H. and E. N. Jones, "Test at Cycling Project Demonstrate Possibilities of New Corrosion Inhibitor," Oil Gas J. 45, No. 27, pp. 86-87, 100, 1946.

545. Kadmer, E. H., "Industrial Emulsions," Petroleum Refiner, Vol. 25 No. 7 pp. 351-4, 1946.
546. Kalinenko, V. O., "Bacterial Colonies on Metal Plates in Sea Water," Mikrobiologiya, Vol. 28, pp. 750-56, 1959.
547. Kallio, R. E., W. R. Finerty, S. Wawzonek and P. D. Klimetra, "Mechanisms in the Microbial Oxidation of Alkanes," Bact. Proc. p 43, 1961.
548. Kapralek, F., "The Assimilation of Hydrocarbons by Microorganisms," Ceskoslovenska Biol., Vol. 3 (2), pp. 82-91, 1954.
549. Karpukhin, P. P. and R. I. Arenkova, "Method for Determining Pyrene," Coke and Chem. (U.S.S.R.), Vol. 11, No. 3, pp. 37-8, 1941.
550. Kasimova, G. S., "Effect of a Stimulant of Petroleum Origin on Development of Azotobacter and Other Bacteria in Pure Cultures," Doklady Akad. Navk. Azerbaidzhan S.S.R., Vol. 12, pp. 421-4, 1956.
551. Kasimova, G. S. and T. A. Babaevs, "Effect of a Stimulant Derived from Petroleum Waste on Development and Antibiotic Activity of Some Fungi," Doklady Akad. Navk. Azerbaidzhan S. S. R., Vol. 12, pp. 655-9, 1956.
552. Kawahara, F. K., Rust-Inhibited Petroleum Distillate Fuel, U. S. Patent 2,972,526, Feb 21, 1961, (to Standard Oil Co.).
553. Kazanskii, B. A. and A. A. Zhukhovitskii, et al., "Chromatographic Analysis of Hydrocarbon Mixtures," Akad. Nauk.S. S. R., pp. 244-67, 1959.
554. Keleher, R. L. and J. Szanto, "Experimental Packaging of U. S. Carbine Caliber .30, with Four Volatile Corrosion Inhibitor Materials," Technical Report No. SA TR20-2305, May 3, 1954; AD-41-832.
555. Keller, H. F., Jr., Corrosion Prevention, U. S. Patent 2,824,835, Feb. 25, 1958, (to Union Oil Co.).
556. Keller, J. L., F. S. Liggett, et al., Automotive Fuel, U. S. Patent 3,020,134; Feb. 6, 1962 (to Union Oil Co.).
557. Kendall, V. V., "Highlights in Corrosion Research," Proc. Ann. Water Conf. Eng. Soc. Western Penna., Vol. 2, pp. 3-9, 1951.
558. Kennedy, S. W., "Oil and Corrosion at High Temperature," Canadian Oil and Gas Industries, Vol. 9, 1956; AD-107-889
559. Keosoff, J. D., "Corporal Type II. Usability Test of Sludge Contaminated Irfa," Report on Test Plan II-B-31, Nov. 1959; AD-313-533L

560. Kereluk, K. and R. M. Baxter, "Microbial Activity in Integral Fuel Tanks, II. The Effect of Buna-N on the Growth of Pseudomonas aeruginosa and Hormodendrum sp.," Physics Technology Dept., The Boeing Co. (unpublished).
561. Kereluk, K., C. M. Procter, et. al., "The Effect of Buna-N on the Growth of Pseudomonas aeruginosa and Hormodendrum species," Society for Industrial Microbiology, meeting August 19, 1962, pp. 28-31.
562. Kereluk, K., F. T. Sautler, and R. M. Baxter, "Microbial Activity in Integral Fuel Tanks III Selection of Fuel-Water Bottom for a Mixed Culture Inoculum Screening Test for Integral Fuel Tank Coatings," Bacterial Proc. p. 9, 1963.
563. Kereluk, K., "Microbial Activity in Turbine Fuels," Bacteriol Proc. p. 156 (1962).
564. van Kerkvort, W. S. and A. J. J. Nieuwstad, "Determination of Dry-sludge Content of Fuel Oils; Development of the Shell Sat-filtration Test (SHFT)." J. of Inst. Petroleum, Vol. 37, pp. 596-604 (1951).
565. Kerns, E. E., "Corrosion of Refinery Equipment," Corrosion, Vol. 3, pp. 291-4 (1947).
566. Kester, A. S., "Studies on the Oxidation of Hydrocarbons by Microorganisms," Dissertation Absts. Vol. 22 (10): p. 3380 (1956).
567. Kirchner, J. D., D. P. Osterhout, et. al., "Fuel-oil Quality," Petroleum Processing, Vol. 11, No. 1, pp. 67-71 (1956).
568. Kirkpatrick, W. H., "Chemical Treatment of Crude-oil Emulsions," Petroleum Refiner, Vol. 27, No. 11, pp. 622-4 (1948).
569. Kirkpatrick, W. H. and D. L. Wilson, Resolving Petroleum Emulsions, U. S. Patent 2,454,808, Nov. 30, 1948 (to Visco Products Co.).
570. Kittredge, G. D., Jet Fuel Additive, U. S. Patent 2,696,798, Dec. 14, 1954 (to Phillips Petroleum Co.).
571. Kittredge, G. D., "Thermal Stability of Hydrocarbon Fuels," Report for May 1, 1961 - April 30, 1963; AD-285-636.
572. Kittredge, J. S. and E. F. Corcoran, "Pitting Corrosion Problems in the Research Fleet Ships, a Survey of Causative Factors," Unpublished Naval Research Report, 1954.
573. Klaus, E. E. and M. R. Fenske, "Fluids, Lubricants, Fuels and Related Materials," Report for Jan-Dec, 1957 (Petroleum Refining Lab.); AD-155-569.

574. Klaus, E. E. and M. R. Fenske et al., "Fluids, Lubricants, Fuels, and Related Materials," Progress Rept. Dec. 15, 60 - Dec. 14, 61 (Petroleum Refining Lab.); AD-275-316
575. Kleiss, L. D., Process Control System, U. S. Patent 2,994,646, Aug. 1, 1961 (to Phillips Petroleum Co.).
576. Klemme, D. E. and J. M. Leonard, "Microbial Inhibitors for Systems of Jet Fuel and Water," NRL Rept. No. 5501 (Aug. 31, 1960); AD-244-511
577. Klemme, D. E. and J. H. Leonard, "Microbial Inhibitors for Systems of Jet Fuel and Water," AD-244-511, August 1960.
578. Kline, H. A. and E. H. Wadlinger, "Deterioration of Neoprene Coated Nylon Watertight Cases," Rept. No. 2658, May 1957, Industrial List Lab. Navy Shipyard; AD-135-129
579. Klyachko, B. I. and V. I. Suchkov, "Corrosion of Low-temperature Heating Surfaces Caused by High Sulphur Fuels," Elek. Stantsii, Vol. 31, No. 2, pp. 7-10 (1960).
580. Knecht, A. T., "Microbial Oxidation of Dibenzothiophene and Its Possible Application in the Desulfurization of Coal and Petroleum," Dissertation Absts. Vol. 22(10) p. 3350 (1962).
581. Knight, H. S., "Chromatographic Determination of Gum in Fuels," Anal. Chem. Vol. 28, pp. 8-11 (1956).
582. Knight, H. S. and S. Greenings, "Fluorescent Indicator Adsorption Method for Hydrocarbon Type Analysis," Anal. Chem., Vol. 28, p. 1949, (1956).
583. Knight, H. S. and S. Greenings, "Indicator Chromatographic Analysis of Organic Mixtures," Anal. Chem., Vol. 26, pp. 1549-1553 (1954).
584. Knosel, D. and W. Schwartz, "Petroleum Oil Bacteriology II. The Occurrence and Behavior of Microorganisms in Petroleum Oil," Arch. Mikrobiol., Vol. 20, pp. 362-390 (1954).
585. Knosel, D. and W. Schwartz, "Investigations in Petroleum Bacteriology II & III Occurrence of Microorganisms in Petroleum," II, Arch. Mikrobiol Vol. 20, pp. 362-390 (1954) III, Z Hyg. Infectious Krankheiten, Vol. 140, No. 1, pp. 100-126 (1954).
586. Kornbach, J. J. and T. B. Wasserbach, Jet Fuel, U. S. Patent 2,913,779, May 31, 1960 (to Esso Research and Engineering Co.).
587. Koga, Y., "Oxidation Stability of Fuel Oil," (Jon Fuel Ind., Co., Shizuoka). Abura. Kagaku., Vol. 7, 257-63 (1958).

588. Kolesnik, E. A., "Basic Results of the Study of the Effect of Anaerobic Micro-flora on Petroleum," Trudy Vsesoyuz. Neft. Nauch-Issledovatel Geologorazvedoch Inst. No. 132, 263-6 (1959).
589. Kolesnik, Z. A. and N. I. Shmonova, "Change in Petroleum (Composition) by Bacteria of the Pseudomonas Species Under Anaerobic Conditions," Doklady Akad. Nauk S.S.S.R., 115, 1197-9 (1957).
590. Kolka, A. J. and G. G. Ecke, Stabilized Fuel Antiknock, U. S. Patent 2,836,609, May 27, 1958 (to Ethyl Corp.).
591. Konovaltschikoff-Mazoyer, M. and J. C. Genez, "Degradation Bacterienne Des Hydrocarbures Paraffiniques. I. Isolement et Characterisation de Souches Marines et. Terrestres Appartenant au Genre Pseudomonas," Ann de l'Institute Pasteur, 91 (d'ordre 2369) 60-67 (1956).
592. Korczak, A., and H. Wyman, "Application of Chemical Descalants to High Pressure Marine Boilers," Final Report 1-31, July 1960 (Wyandotte Chemicals Corp.); AD-247-529L.
593. Koshevnik, A. Yu, M. M. Kusakov et. al., "The Effect of Surfactants on the Motion of Gas Bubbles in Liquid Hydrocarbons," Zhuc. Fiz. Khim., Vol. 33, No. 197, pp. 2030 (1959).
594. Kowalski, Z., "Protective Action of Sprayed Zinc and Aluminum Coatings Against Corrosion by Liquid Fuels," Corrosion et Anti-corrosion, Vol. 6, pp. 457-62 (1959).
595. Kraus, A., "Nitrocellulose for Special Purposes. Emulsified Nitro-cellulose Lacquers," Nitrocellulose, Vol. 12, pp. 106-7 (1941).
596. Kretschmar, G., "The Isothermal Compressibilities of Some Rocket Propellant Liquids, and the Ratios of the Two Specific Heats," Jet Propulsion, Vol. 24, pp. 175-9 (1954).
597. Kroll, H., J. D. Spivack, et. al., Corrosion-Inhibiting Agents, Ger. Patent 1,090,486, Oct. 6, 1960 (to J. R. Geigy).
598. Kropotkin, P. N., "The Geological Conditions for the Appearance of Life on Earth and the Problems of Petroleum Genesis," Aspects of the Origin of Life, Pergamon Press, pp. 63-73 (1960).
599. Krynitsky, J. A. and G. W. McLaren, Jr., "Some Effects of Microbial Growths on Surfactant Properties of Fuels," Biotechnology and Bio-engineering, Vol. 4, pp. 357-367 (1962).
600. Krynitsky, J. A., G. W. McLaren, Jr., "Some Effects of Microbial Growths on Surfactant Properties of Fuels," Presented ACS Meeting, Atlantic City, 1962.

601. Krynitsky, J. A. and G. W. McLaren, Jr., "Some Effects on Microbial Growths on Surfactant Properties of Fuels," Chem. and Ind., No. 16, p. 642 (1963).
602. Kubinova, M., O. Vilim, et al., "Determination of Traces of Water in Hydrocarbons," Collection Czechoslov. Chem Commun., Vol. 26, pp. 1320-4 (1961).
603. Kurtz, S. S., Jr. and J. S. Sweely, Phenol-aldehyde Sealing Agents, U. S. Patent 2, 457,160, Dec. 28, 1948 (to Sun Oil Co.).
604. Kusakov, M. M., M. A. Landau, et al., "The Calcium Hydride Method of Determining the Water Content of (Liquid) Fuels, With the Calculation of the Kinetics of Hydrogen Evolution," Khim i Tekhnol. Topliv i Mosel, Vol. 3, No. 4, pp. 55-61 (1958).
605. Kutzko, G. G., "Research on the Effects of Hydrocarbon Fuels on the Operation of Vapor Phase Fuel Systems," Quarterly Progress Rept. No. 3, (General Electric Co.); AD-276-286
606. Kuznetsova, V. A., K. B. Ashirov et al., "An Experiment on Suppressing the Development of Sulfate-Reducing Bacteria in the Oil Strata of the Kalinovka Field," Mikrobiologiya Vol. 26, pp. 334-341 (1957)
607. Kuznetsov, S. I., "Contribution of Bacteria, Capable of Oxidizing Gaseous Liquid Hydrocarbons, in Lakes," Mikrobiologiya, Vol. 10, pp. 429-36 (1947).
608. Kuznetsov, S. I. and Z. P. Telegina, "Data on Physiology of Propane Oxidizing Bacteria," Mikrobiologiya, Vol. 26, No. 5, pp. 509-13 (1957).
609. Kuznetsova, V. A., K. B. Ashirov, et al., "Study of Growth Inhibition in Sulfate-Reducing Bacteria of Kalinovka Stratum Oil Deposits," Mikrobiologiya, Vol. 26, pp. 330-7 (1957).

610. Lada, A., "Role of Microorganisms in Secondary Oil Recovery," Proc. 45th Ann. Chem. Spec. Mfgs. Assoc. pp 123-125, Dec. 8-10, 1958.
611. Ladd, J. N., "The Oxidation of Hydrocarbons by Soil Bacteria. I. Morphological and Biochemical Properties of a Soil Diptheroid Utilizing Hydrocarbons," Australian Jour. Biol. Sci., 9(1) pp 92-104, 1956.
612. Ladd, J. N., "Potassium Ion Stimulation of Hydrocarbon Oxidation by a Corynebacterium sp. From Soil," Nature, 177, 939, 1956.
613. Lamy, J. E. J., Fuel or Lubricant Additive for Removal of Engine Deposits, Fr. Patent 1, 113,500 Mar. 29, 1956.
614. Laudermilk, J. I., "Field Studies and Data on Corrosion in South-Eastern New Mexico," Oil Gas J. Volume 45, No. 31, pp. 105-10, 1946.
615. Laveelle, G. and J. Asselineau., "Isolement De Peptido-Lipides A Partir De Mycobacterium paratuberculosis," Biochem. Biophys. Acta. Volume 59, pp. 731-732, 1962.
616. Lavrov, N. V. and A. M. Mosin., "The Nature of the Negative Temperature Coefficient in the Oxidation of Hydrocarbons," Doklady Akad. Nauk Uzbek. S.S.R. No. 10 pp 29-30, 1960.
617. Lawrence, A.S.C., "Breaking of Oil Emulsions with Synthetic Detergents," Chemistry and Industry, Volume 39, pp 615-617, 1948.
618. Lawrence, A.S.C. and W. Killner., "Emulsions of Sea Water in Admiralty Fuel Oil with Special Reference to their Demulsification," J. Inst. Petroleum Volume 34, pp. 821-856, 1948.
619. Lawton, H. C., Sealing Composition for Oil and Gas Wells, Can. Patent 417, 444 Dec. 28, 1943, (to Shell Development Co.).
620. Lawton, H. C., Sealing of Porous Formations in Oil Wells, Can. Patent 417, 447 Dec. 28, 1943, (to Shell Development Co.).
621. Leathen, W. W., "Special Summary Report on Microbiological Studies of Bituminous Coal Mine Drainage," Commonwealth of Pennsylvania Dept. of Health Industrial Fellowship, No. 326B-6, Sept. 1952.
622. Lee, M. and A. C. Chandler., "A Study of the Nature, Growth and Control of Bacteria in Cutting Compounds," J. Bacteriol. 41(3), pp. 373-386, March 1941.
623. Lee, R. W. H., "Bibliography on Microorganisms Affecting Petroleum and Petroleum Products Including Reports on Sulfate - Reducing Bacteria," PDC, PDL - 43196, Jan. 20, 1962. Revised

624. Lee, R. W. H., "Microbiological Activities in Petroleum and Petroleum Products," An Annotated Bibliography. PDC Search No. 63-034, PDL-48377, July 22, 1963.
625. Lee, R. W. H., "Bibliography on Microbial Corrosion of Metals," July 11, 1963, Natl. Acad. of Sci., Natl. Research Council. PDC Search No. 63-025, PDL - 48074.
626. Leland, T. W., Jr. and R. E. Holmes, "Design of Hydrocarbon-Recovery Units Using Solid Absorbents," J. Petrol Technol, Volume 14, pp. 179-186, 1962.
627. Lemmon, N. E. and F. W. Schuessler, Emulsifiable Soluble Oil Composition, U. S. Patent 2,436,046, Feb. 17, 1948 (to Standard Oil Co. of Indiana).
628. Leonard, J. M. and D. E. Klemme, "Fungi in Fuel," NRL Report PDL-45723 C-5, Sept. 1962.
629. Leonard, J. M., "Fuel Fungi," Naval Res. Rev. 16-18, Feb. 1960, U. S. Naval Res. Lab., Wash. D. C.
630. Le Pera, M. E., "An Accelerated Test Procedure for Evaluating the Compatibility of Protective Coatings with Combustion Fuels," Report No. CCL-129, 15 Aug. 1962, Coating and Chemical Lab., Aberdeen Proving Grounds, Md., AD-285-028.
631. Lerch, W. B. and E. J. Gatchell, Sealing of Casing Tubes in Oil Wells, U. S. Patent 2,349,181, May 16, 1944 (to Phillips Petroleum Co.)
632. LeTourneau, R. L., "Petroleum," Anal. Chem. 33 : 92R-112R (1961)
633. Leverett, M. C. and G. G. Wrightsman, Selectively Plugging Formations Producing Oil and Water, U. S. Patent 2,366,036, Dec. 26, 1944 (to Standard Oil Development Co.).
634. Lewis, A. and R. P. Taylor, Fuel Oil Additive, German Patent 1,086,841, Aug. 11, 1960.
635. Leyhe, E. W. and R. R. Howell, "Calculation of Thermodynamic, Transport, and Flow Properties of the Combustion Products of a Hydrocarbon-Fuel Mixture Burned in Air, With Results for Ethylene-Air and Methane-Air Mixtures," NASA Tech. Note D-914, 103 pp., 1962.
636. Liberto, R. R., "Storable Propellant Data For the Titan II Program," Report No. 8182-933001, Bell Aerosystems Co., Buffalo, N.Y., Apr. 1961, AD-263-328.
637. Lieber, E., Ketone-A Aldehyde Condensation Products, U. S. Patent 2,384,935, Sept. 18, 1945 (to Standard Oil Development Co.).

638. Liebl, X., "The Production of Airplane Fuels," Chemie, Volume 4, pp. 27-28, 1948.
639. Lijinsky, W. and J. H. Quastel., "Metabolism of Carcinogenic Hydrocarbons by Soil Microorganisms," Arch. Biochem. and Biophys., 63(1), pp. 160-164, 1956.
640. Lindeman, L. P. and J. L. Annis, "A Conventional Mass Spectrometer as a Detector for Gas Chromatography," Anal. Chem., Volume 32, pp. 1742-1749, 1960.
641. Lindenmuth, A. W. Jr., "Effects on Fuels and Trees of a Large Intentional Burn in Ponderosa Pine," Jour. Forest, 60(1), pp. 804-810, 1962.
642. Little, A. D., "Investigation of Parameters Affecting Aircraft and Missile Fuel Filtration," Report on Petroleum Servicing and Handling Equipment, 1 Mar. 1960.; AD-243-251.
643. Little, D. M., Asphalt Manufacture, U. S. Patent 3,003,943 Oct. 10, 1961, (to Phillips Petroleum Co.).
644. London, S. A., "Air Force Programs in Fuel Microbiology," AMRL Memorandum M-24, Jan. 1963, Wright-Patterson Air Force Base, Dayton, Ohio.
645. Losikov, B. V. et al., "The Influence of the Products of Combustion of Sulfur-Containing Fuel Distillates on the Construction Materials of Gas Turbines," Trans. No. FTD-TT-62-1026 from Energomashinostroyeniye, No. 2, pp. 34-37, 3 Dec. 1962.; AD-295-808.
646. Losikov, B. V. et al., "Use of Neutralizing Compounds in Diesel Engines Operating on Sulfur-Rich Fuel," Trans. No. E-826 and T-10 of Khimiya i Tekhnologiya Topliv i Nassel, No. 2, pp. 46-52, 1961.; AD-267-917.
647. Loveland, J. West, et al., "Determination of Traces of Water in Hydrocarbons in the Gasoline Boiling Range," Anal. Chem., Volume 30, pp. 1316-21, 1958.
648. Lovelock, J. E., et al., "Affinity of Polycyclic Aromatic Hydro-Carbons For Electrons with Thermal Energies: Its Possible Significance in Carcinogenesis," Nature, 193 (4815), pp. 540-541, 1962.
649. Lowe, W. B. and R. A. Stayner. Compounded Hydrocarbon Fuels, U. S. Patent 2,892,690 June 30, 1959, (to California Research Corp.).
650. "Lubricants, Liquid Fuels and Related Products, Methods of Testing," Federal Test Method Standard No. 791A, Dec. 31, 1961, General Services Administration.

651. Lucas, D. M., "The Identification of Petroleum Products in Forensic Science by Gas Chromatography," J. Forensic Sci., Volume 5, pp. 236-247, 1960.
652. Luchter, A., "Utilization of Various Hydrocarbons by Bacteria Isolated From Oil Wells," Acta Microbiol. Polonica, 4(4), pp. 271-280, 1955.
653. Luchterowa, A., "Bacterial Cultures as Indicators for Oil Deposits," Nafta 10, Biul. Inst. Naftowego 4, pp. 3-4, 1954.
654. Lukins, H. B., "On the Utilization of Hydrocarbons Methyl Ketones and Hydrogen by Mycobacteria," Dissert. Absts., 23 (1), pp. 29-31, 1962.
655. Lumpkin, H. E. and D. E. Nicholson, "Analysis of O-Xylene Oxidation Products," Anal. Chem., 32 (1), pp. 74-77, 1960.
656. Lumpkin, H. E. and G. R. Taylor., "A Solid Inlet System for a Mass Spectrometer," Anal. Chem., 33 (3), pp. 476-477, 1961.
657. Lumpkin, H. E., "Determination of Saturated Hydrocarbons in Heavy Petroleum Fractions by Mass Spectrometry," Anal. Chem., 28: 1946, 1956.
658. Lumpkin, H. E., "Low Voltage Techniques in High Molecular Weight Mass Spectrometry," Anal. Chem., 30 (3), pp. 321-325, 1958.
659. Lumpkin, H. E. and B. H. Johnson., "Identification of Compound Types in a Heavy Petroleum Gas Oil," Anal. Chem., Volume 26, pp. 1719, 1954.
660. Lumpkin, H. E. and J. O. Beauxis., "Instrumental Measurement of Total Ionization in the Mass Spectrometer," Anal. Chem., 32 (13) pp. 1815-1818, 1960.
661. Lytle, Melba L., Method of Preventing Corrosion of Corrosive Fluid to Ferrous Metals, U. S. Patent 2, 721, 175 Oct. 18, 1955.

662. Maas, R. H. and R. D. Merriek, "Protection Against Corrosion in Light-Oil Tank Ships," Korrosion 31, 226-32, 1960.
663. MacKenzie, K., "The Application of Desulfovibrio desulfuricans to the Recovery of Crude Oil," Congr. Intern. Biochim., Resumes communs., 2nd Congr., Paris 1952, 89-90.
664. Mair, B. J. and J. D. White, "Fractionation by Regular Adsorption," J. Research Bur. Standards, Vol. 15, p. 51, 1935.
665. Mair, B. J., et. al., "Seventeen Aromatic Hydrocarbons Separated from the 180° to 200° Fraction of Petroleum," J. Chem. Eng. Data 5, 186-92 (1960).
666. Mair, B. J., et. al., "Fractionation of Hydrocarbons by Adsorption with Added Components," Anal. Chem., Vol. 28, p. 56, 1956.
667. Mair, B. J., "Fractionation of Hydrocarbons by Azeotropic Distillation with Fluoro Chemicals," Anal. Chem., Vol. 28, p. 52, 1956.
668. Mair, B. J. and M. Shamaieingar, "Fractionation of Certain Aromatic Hydrocarbons with Molecular Sieve Absorbents," Anal. Chem. 30, 276 (1958)
669. Mair, B. J., et. al., "Analytical Fractionating Processes," Anal. Chem. 27, 190 (1955).
670. Mair, B. J. and J. L. Martinez-Pico, "Composition of the Trinuclear Aromatic Portion of the Heavy Gas Oil and Light Lubricating Distillate," Session on Fundamental Research, 27 midyear meeting, American Petroleum Institutes Division of Refining, San Francisco, Calif., May 14, 1962.
671. Makin, E. C., Jr., Hydrocarbon Separation, U. S. Patent 2,983,768, May 9, 1961 (to Monsanto Chemical Corp.).
672. Malatesta, L. A., et. al., "Antibacterial Action of Some Aliphatic Halogen Compounds, Especially on Bromopicrin," Farm Sci. e Tec. (Pavia) 6, pp. 137-141. 1953.
673. Marr, E. K., "The Bacterial Oxidation of Benzene," Diss. Abs. p. 460, 1959.
674. Marr, E. K. and R. W. Stone, "Bacterial Oxidation of Benzene," J. Bacteriol 81 (3); pp. 425-30, 1961.
675. Marsh, G. A., Prevention of Corrosion of Structural Metals by Hydrogen Sulfide, Air, and Water, U. S. Patent 2,571,739, Oct. 16, 1951 (to Pure Oil Co.).
676. Martin, R. L., "Adsorption on the Liquid Phase in Gas Chromatography," Anal. Chem. 33 (3); pp. 347-52, 1961.

677. Martin, R. L., "Adsorption of Solutes at the Liquid-gas Interface as Measured by Gas Chromatography and Gibbs' Equation," Anal. Chem. 35(1): pp. 116-117, 1963.
678. Martinek, T. W. et al., Extraction Process, U. S. Patent 3,003,005, Oct. 3, 1961 (to Pure Oil Co.).
679. Mason, J., Cement-Glue Wash, Informal Memo., Ministry of Supply, England, April 14, 1959.
680. Massachusetts Institute of Technology, Cambridge, Concentration and Separation of Microorganisms, Final Progress Report Mar. to Oct. 1960, Contract DA 18-064-404-cml-216; AD-249-840
681. Materials Protection, Aluminum, Vol. 2, No. 6, Houston, Texas, NACE, June 1963.
682. Matsuda, Sumio, "Recent Developments of Petroleum Chemistry," Yukagaku 8, 317-23 (1959).
683. Matta, M. S. and L. D. Smithson, "Infrared Spectra of Some Oils, Greases, Additives and Related Materials," TDR No. ASD-TDR-62-771, August, 1962, Univ. of Cincinnati.
684. Matter, J. K., "Compatibility of Fungicides and Antiozonants," Final Report No. 3173, Jan. 5, 1955, Detroit Arsenal. Center Line, Mich.; AD-93-623.
685. Matthews, F. W. H. and D. F. Parsons, "The Copper Strip Test. A Study of Current Methods of Interpretation and an Examination of Proposed New Procedures," Proc. Mid-year Meeting, Am. Petroleum Inst. 30 M (III), pp. 24-37, 1950.
686. Mattox, W. J., Separation of Isoparaffins Differing in Degree of Branching With Zeolitic Sieves, U. S. Patent 2,956,089, Oct. 11, 1960.
687. Mayhew, R. L., and C. F. Jelinek, Corrosion Inhibiting Compositions, U. S. Patent 2,835,635, May 20, 1958 (to General Aniline and Film Corp.)
688. Mayhew, R. L. et al., Rust Preventive Compositions, U. S. Patent 2,898,301, Aug. 4, 1959 (to General Aniline and Film Corp.).
689. McAllan, D. T., "Petroleum Microbiology-some Effects of Micro-organisms on Petroleum Operations and Refined Products," British Petroleum Research Centre, Tech. Memo. No. 120,084 March 6, 1961.
690. McCubbin, W. L., "Electronic Processes in Paraffinic Hydrocarbons. Part I. On the Nature of Carrier Traps," Trans. Faraday Soc. 58(480), Part 12, pp. 2307-2315, 1960.

691. McCubbin, W. L., "Electronic Processes in Paraffinic Hydrocarbons. Part II. Validity of a Band Model," Trans. Faraday Soc. 59(484), Part 4, pp. 769-744, 1963.
692. McCullough, J. P., "Bibliography of Bureau of Mines Articles on Thermodynamics of Petroleum Constituents and Related Compounds: January 1, 1944, December 31, 1960," IC Bureau of Mines Circular 3034, U. S. Dept. of Interior, 1961.
693. McGrew, J. and E. Jules, "ANPP Corrosion Program Loop Testing of Inconel, Nickel, Monel and Bimetal Heat Exchangers," Report No. MND-E-2681, contract DA 44-009-eng-3581, Martin Co., Baltimore, Md. Dec. 1961; AD-269-257
694. Meadow, J. R. and E. Emmet Reid, Separation of Asphalt From Hydrocarbons, U. S. Patent 2,438,874, Mar. 30, 1948 (to Socory-Vacuum Oil Co., Inc.)
695. Meinshein, W. G. and G. S. Kenry, "Analyses of a Chromatographic Fraction of Organic Extracts of Soils," Anal. Chem. Vol. 29, p. 1153, 1957.
696. Melik-Zade, M. M. et al., "Determination of Gum in Leaded Gasoline," Voprosy Issledovan, Neftei i Nefteproduktov Razrabotki Protsessov Pererabotki Nefti i Obsledovan, Zavod. Ustanovok, Sbornik 1957, No. 1, pp. 97-8.
697. Mel'nikova, N. P. and O. I. Svetozarova, "Determination of Aromatic Hydrocarbons in Wide Gasoline and Kerosine Fractions," Novosti Neft. Tekh., Neftepererabotka 1958, No. 6, pp. 8-13.
698. Menaul, P. L. and P. P. Spafford, "Preventing Corrosion in Gas Condensate Wells," Am. Inst. Mining Met. Engrs. Petroleum Technol. 10, No. 4, Tech. Pub. 2229, 1947.
699. Menaul, P. L., Prevention of Oil-Well Corrosion, U. S. Patent 2,426,317, Aug. 26, 1947 (to Stanolind Oil and Gas Co.)
700. Mentre, J., Glaziers Putty, French Patent 940,446, Dec. 13, 1948.
701. Mesrobian, R. B. and A. V. Tobolsky, "Autoxidation of Hydrocarbons Accelerated by Metals, Light, and Other Agencies," Continental Can Co., Chicago. Reference Unknown.
702. Meyers, C. O., Prevention of Corrosion of Metallic Surfaces, U. S. Patent 2,487,578, Nov. 1949 (to Phillips Petroleum Co.).
703. Miles, G. D., "Foam Drainage," J. Phys. Chem. 49 pp. 93-107, 1945.
704. Military Specifications, Sealing Compound, Topcoat, Fuel Tank, Buna-N type, Mil-S-4383B, April 1955.

705. Miller, A. E., The Literature of the Basic Research on Hydrocarbons Derivable From Petroleum (and Natural Gas), Sinclair Refining Co., New York, N. Y., Advances in Chemistry, Series No. 10, 339-59, 1954.
706. Miller, R. N., "Microbiological Corrosion of Aircraft Fuel Tanks, a Literature Survey," Lockheed Report No. ER-6302, July 1963.
707. Mills, I. W., Suppression of Fuel Icing, U. S. Patent 2,906,613, Sept. 29, 1959 (to Sun Oil Co.).
708. Mills, I. W., Fuel Compositions, U. S. Patent 2,932,560, April 12, 1960 (to Sun Oil Co.).
709. Milner, C. P. and H. H. Power, "Surfactant Influence on Flood Recovery," Petroleum Engr. 27, No. 5, B114-19, 1955.
710. Mingle, J. G., Jr., Removal of Combustion Chamber Deposits in Spark-Ignition Engines, U. S. Patent 2,696,806, Dec. 14, 1954 (to California Research Corp.)
711. Minor, H. B. et al., "Stability of Jet Turbine Fuels," WADC Tech. Report 53-63, Part III, Feb. 1957.
712. Minor, H. B. et al., "Stability of Jet Turbine Fuels Part IV. Thermal and Oxidative Stability," WADC Tech. Report 53-63, Feb. 1957.
713. Minutes, meeting of AD-Hoc group on Microbiological Growths in Fuels, held 26 January 1961 at the Pentagon Offices of the Director of Defense Research and Engineering, Washington 25, D. C., KL208/32, 13 Feb. 1961.
714. Mitacek, B., Prevention of Filter Plugging Utilizing, U. S. Patent 2,952,121, Sept. 13, 1960.
715. Mitchell, J. P., "Study of Nozzles to Spray Contaminated Fuel," Final Report 16 June - 26 Dec. 1961 report No. PWA FR-341, contract No. w61-0606-f, 9 Feb. 1962; AD-274-335
716. Mitz, M. A., Blanchard, G. C. and T. E. Deacon, "Biochemical Detection Method for Bacteria and Viruses," Final Report, Contract No. DA-18-064-CML-2842, July 1963, Melpar Inc., Falls Church, Va.
717. Miyaniishi, M., "Spectroscopic Study of the Effect of Microcrystalline Substances on the Low-temperature Oxidation of Hydrocarbons," J. Fuel Soc. Japan 34, pp. 373-9, 1955.
718. Mogilewskii, G. A., "Some Regular Patterns in the Distribution of Natural Gases and Microorganisms in an Area of Petroleum and Gas Fields," Trudy Inst. Mikrobiol. Akad. Nauk S. S. S. R. 9.46-56, 1961, Referat. Zhur. Biol., No. 2B263, 1962.

733. Moyer, M. I. and J. M. Hersh, Inhibiting Hydrogen Sulfide Corrosion Of Metals, U. S. Patent 2,596,273, May 13, 1952 (to Cities Service Oil Co.).
734. Mumford, H. E. G., "Emulsives of Sea Water in Admiralty Fuel Oil With Special Reference to Their Demulsification," J. Inst. Petroleum 35, p. 140, 1949.
735. Munday, J. C., Gasoline, U. S. Patent 2,398,848, Apr. 23, 1946.
736. Murphy, C. M., et al., "Factors Influencing the Corrosivity of Diester-base Oils," NRL Report No. 5451, Feb. 29, 1960; AD-234-334

733. Moyer, M. I. and J. M. Hersh, Inhibiting Hydrogen Sulfide Corrosion Of Metals, U. S. Patent 2,596,273, May 13, 1952 (to Cities Service Oil Co.).
734. Mumford, H. E. G., "Emulsives of Sea Water in Admiralty Fuel Oil With Special Reference to Their Demulsification," J. Inst. Petroleum 35, p. 140, 1949.
735. Munday, J. C., Gasoline, U. S. Patent 2,398,848, Apr. 23, 1946.
736. Murphy, C. M., et al., "Factors Influencing the Corrosivity of Diester-base Oils," NRL Report No. 5451, Feb. 29, 1960; AD-234-334

737. Naps, Marguerite, and H. J. Sommer., Hydrocarbon-resistant Asphalt, U. S. Patent 2,550,371, Apr. 24, 1951 (to Shell Development Co.).
738. Nathan, C. C. and E. Eisner, "Statistical Concepts in the Testing of Corrosion Inhibitors," Corrosion 14, pp. 193t-199t, 1958.
739. Naumann, C., Distillation of High-boiling Hydrocarbons, U. S. Patent 2,700, 016, Jan. 18, 1955.
740. Neely, D. C., "What Causes Tubular Failures," Oil Gas J. 50, No. 4, pp. 78-80, 1951.
741. Nelson, J. W., Foots Oil Oxidate Composition, U. S. Patent 2,776,309, Jan. 1, 1957 (to Sinclair Refining Co., New York, N.Y.).
742. Nesh, Florence, Determination of Minute Traces of Water by Use of Methylene Blue, U. S. Patent 2,950,958, Aug. 30, 1960.
743. Netzel, D. A. et. al., "Effects of Anti-icing Additives on Jet Fuel Properties," Midwest Research Inst., Kansas City, Mo. Report covering 1 Sept. 60 - 30 Apr. 61, Pro. 3048, 72 p. May 1961. AD-265-233.
744. Newman, S. R., Anti-ice Clogging Additive for Fuel, U. S. Patent 2,858, 201, Oct. 28, 1958 (to The Texas Company, New York, N.Y.).
745. New York Naval Shipyard, "Deterioration Resistant Polymers, Development of," Material Lab., N. Y. Naval Shipyard, Brooklyn, Progress Report No. 1, 26 April 1960, on Lab. Project No. 5855-15; AD-235-807.
746. Nikitin, D. I., "Conditions of the Efficiency of the Decomposition of Humic Acids by Bacteria," Tr. Inst. Mikrobiol., Akad. Nauk SSSR No. 11, p.p. 41-47, 1961.
747. Nikolaeva, T. N. and V. G. Kiryatnikova, "Simplified Method of Obtaining Anticorrosive Coatings from Fluoroplast-3," Plasticheskie Massy, No. 1 pp. 44-46, 1960.
748. Nixon, A. C. and R. E. Thorpe, "Effects of Composition on the Stability and Inhibitor Response of Jet Fuels," Am. Chem. Soc., Div. Petrol. Chem. Preprints 1 No. 3 Gen. Papers, 1956.
749. Nixon, A. C., et. al., "Effects of Composition and Storage on the Properties of Jet Fuels," J. Chem. Eng. Data 4, pp 187-192, 1959.
750. Nogare, S. D. and C. E. Bennett., "Programmed Temperature Gas Chromatography," Anal. Chem. 30, pp 1157-1158, 1958.
751. Nordshtrem, E. K., "Treating Wood Tar to Produce Substitutes for Mineral-oil Lubricants and for Fuels," Lesnaya Prom. No. 7/8 1943.

752. Norman, Gatewood, "Protective Coating for High Temperature Service," Protective Coating Symposium, 17 Annual N.A.C.E. Conf. Buffalo, N.Y. Mar. 13-17, 1961.
753. Norman, G., "Coating Systems for Steel at 250 to 1200°F," Corrosion 17, No. 9, Tech. Topics pp 12-14, 16, 20, 1961.
754. Norris, T. A., et. al., "Fluorescent Indicator Adsorption Analysis of Gasoline Partially Deactivated Silica Gel Columns," Anal. Chem. 33, pp 1556-1558, 1961.
755. Nottes, E. G., "The Choice and Selection of Gum Inhibitors and Metal Deactivators for Hydrocarbon Fuels," Erdol U. Kohle 9, pp 853-857, 1956.
756. Novak, J. and J. Janak., "The Nonlinearity of the Signal Response and the Inversion Effect in Flame Ionization Detection," J. Chromatog. 4, pp 249-251, 1960.
757. Novelli, D. G. and C. E. Zobell., "Assimilation of Petroleum Hydrocarbons by Sulfate-reducing Bacteria," J. Bacteriol. 47, pp 447-448, 1944.
758. Novosibirskii Elektrotekhnicheskii Institut. Depressing Foam Formation by Electric Discharge. U.S.S.R. Patent 137,870, May 10, 1961.
759. N. V. de Bataafsche Petroleum Maatschappij. Foam Inhibitor for Jet Fuels, Dutch Patent 90, 698, Apr. 15, 1959.
760. N. V. de Bataafsche Petroleum Maatschappij. Separation of Straight-Chain Hydrocarbons from Cyclic Hydrocarbons, British Patent 825, 340, Dec. 16, 1959.
761. N. V. de Bataafsche Petroleum Maatschappij. Separation of Hydrocarbons by Molecular Sieves, British Patent 848, 190, Sept. 14, 1960.

762. Oathout, J. D., "The Development of a Procedure for Evaluating the Corrosion Preventive Properties of Aircraft Engine Lubricating Oils," Esso Labs., Standard Oil Development Co., Linden, N.J. Tech. Rept. No. 4 (Final), 3 Aug. 1953 (Rept. No. RL-13M-53(79)) (Contract AF 33(616)187) AD-15-604.
763. Oathout, J. D., "The Development of a Procedure for Evaluating the Corrosion Preventive Properties of Aircraft Engine Lubricating Oils," Esso Labs., Standard Oil Development Co., Linden, N.J. Rept. No. 3, Mar-Apr., 27 May 1953 (Rept. No. RL-10M-53(54)) Contract AF 33(616)187 AD-16-549.
764. Oathout, J. D. Soluble Cutting Oil, U. S. Patent 2,689,222, Sept. 14, 1954 (to Standard Oil Development Co.).
765. Obojska, K., "Breakdown of Saturated and Unsaturated Hydrocarbon by Saprophytic Microbacteria," Acta Microbiol. Polon. 2, pp 129-132 1953
766. Obolentsev, R. D. and N. S. Lyubopytova., "Determination of Sulfides in Petroleum Products by Ultra-violet Absorption Spectroscopy," Khim. Ser-aorg. Soedinenii Soderzhashch. v Neft i Nefteprodukt., Akad. Nauk S.S.S.R. Bashkir. Filial, Doklady 3-ei Nauch. Sessii, Ufa 1957, pp 30-36 (Pub. 1959).
767. Obolotsev, R. D. and B. V. Alvazov., "The Separation of Hydrocarbon Mixtures and Organic Sulfur Compounds by Vapor Chromatography," Khim. Sera-Org. Soedinenii Soderzhashch. v Neft. i Nefteprodukt., Akad. Nauk S.S.S.R. Bashkir. Filial Doklady 3-ei Nauch. Sessii, Ufa 1957, pp 110-124 (Pub. 1959).
768. Obryadchikov, S. N. Mekhanizm i Khimizm Kataliticheskogo Krekinga, Moscow: Sci. Tech. Pub. House of Petroleum Mineral Fuel Literature, 1946.
769. Okazaki, K. and S. Oshima., "Antibacterial Activity of Higher Plants. XXV. Antimicrobial Effect of Essential Oils. 6.," J. Pharm. Soc. Japan 73, pp 690-692, 1953.
770. Orengo, F., "Modern Propellants for Jet Engines," Chimica (Milan) 11, pp. 55-57, 1955.
771. Orlando, M., Gasoline Additive to Permit a Swift Starting of Car Engines, Italian Patent 461,565, Jan. 31, 1951.
772. Osnitskaya, L. K., "Decomposition of Naphthenic Acids and Naphthenic Hydrocarbons by Microorganisms," Azerbaidzhanskoe Neftyanoe Khoz. 26, No. 5, pp 23-26, 1947.

773. Osnitskaya, L. K., "New Type of Purple Bacteria from Vein Water of a Petroleum Deposit," Trudy Inst. Mikrobiol., Akad. Nauk. S.S.S.R. 3, pp 5-20, 1954.
774. Ownby, J. C. and H. E. Davis, Anti-sludging Hydrocarbon Fuel Oils, U. S. Patent 2,992,082, July 11, 1961 (to Eastman Kodak Co., Rochester, N.Y.).
775. Pachuta, M. A., "Evaluation of Radio-Isotope Specific Gravity Detector," (Proj. 8-53-03-420; Technical Rept. No. 1638-TR). 27 p, 13 June 60. Army Engineer Research and Development Labs. Fort Belvoir, Va. AD-242-775.
776. Padwe, M. M., "The Literature of the Oxygen-Containing Hydrocarbon Derivatives Obtainable from Petroleum and Natural Gas," Jefferson Chemical Co., Austin, Texas. Advances in Chemistry Series 10 p 370, 1954.
777. Pallai, I., "H₂O₂ Production by Partial Oxidation of Hydrocarbons," Magyar Kim. Lapja 16, 160-4(1961).
778. Parker, I. M., "Corrosion Inhibitors in Products Pipe Lines," Proc. Am. Petroleum Inst. 26, 26 (1946).
779. Parker, M. E., "How to Combat Corrosion in Processing Oil and Gas," Oil Gas J. 50, No. 45, 235-44 (1952).
780. Partridge, W. A., and H. J. Alty, "Lead Precipitation in Aviation Fuels," Proc. 3rd. World Petroleum Congr., The Hague 1951, Sect. VII, 169-81.
781. Pascal, P. V. H. and Mme. F. Plotegher, (Inventors), Fuel Purification. Fr. 986,470, Aug. 1, 1951.
782. Pasqnon, I., "Recent Developments in the Petrochemical Industry," Petrol. Mat. Frima Ind. Chim. Mod. Comun. Gironata Chim. Milan 1961, 179-208.
783. Patrikeev, V. V., Determination of Petroleum Bacteria in Soil Samples, U.S.S.R. 67, 718, Dec. 31, 1946.
784. Patterson, A. C., Westfield, and H. Z. Martin, Molecular Sieve Separation Process, U. S. 2,901,519, Aug. 25, 1959.
785. Pearl, C. E., Beta-Ethoxyethyldecarborane and Method for Its Manufacture, No. Drawing 2,977,391, March 28, 1961, (assignor, by mesne assignments, to Thiccol Chemical Corporation, a Corp. of Delaware).
786. Pedersen, C. J., and R. C. Bender, Stabilization of Petroleum Hydrocarbons, U. S. 2,382,905, Aug. 14, 1945, (to E. I. du Pont de Nemours and Co.).

787. Pelzel, E., "Intercrystalline Corrosion of Zinc-Aluminum-Copper Alloys," Metall 8, 169-73 (1954).
788. Peng, Shoo-I Hsueh-Yueh Tang, and Sheng-Chieh Chiang, "Analysis of Hydrocarbon Mixtures by Visible Indicator Chromatography," K'io Hsueh T'ung Pao 1957, No 10, 303-4.
789. Perdew, W. E., Desalting and Demulsifying Petroleum Oils, U. S. 2,326,882, Aug. 17, (to Globe Oil and Refining Co.).
790. Peri, J. B., "The State of Dispersion of Detergent Additives in Lubricating Oil and Other Hydrocarbons," J. Amer. Oil Chemists 35(3): 110-117, 1958.
791. Perry, C. W., "High-Energy Fuels for Jet Propulsion Engines," Can. J. Chem. Engrs. 36, 247-51(1958).
792. Petrovakaya, A. Y., and Y. V. Mikhoilovak, "Polarimetric Method for the Determination of Moisture Content," Inzkener.-Fis. Zhur. Neuk Belerus. S.S.R. 3, No. 6, 9-100(1960).
793. Petty, C.O., Process for Sweetening and Stabilizing Hydrocarbons with an Organic Epoxide and an Aqueous Alkaline Phenol, U. S. 2,862,804, Dec. 2, 1958, (assignor to La Gloria Oil and Gas Company, Tyler, Texas).
794. Phillips, A. J., and A. A. Smith Jr., Coating Sn-Coated Cu with In-, U. S. 2,348,358, May 9, 1944, (to American Smelting and Refining Co.).
795. Phillips Petrol Co.; "Phillips 66 Hydrocarbons and Petro-Sulfur Compounds," 5th Edition, Bulletin 518, 1958.
796. Phillips, U. A., and R. W. Traxler, "The Microbial Degradation of Asphalt and Other Hydrocarbons," In: Annual Meeting of the American Society for Microbiology, Kansas City, Missouri, May 1962. Bacteriol. Proc. 62:25. 1962 -- Abstract.
797. Piatti, L., "Effects of Wetting Agents on Corrosion. II. The Influence of Nonionic Wetting Agents," Werkstoffe Korrosion 2, 441-4(1951): cf. C. A. 45, 4194i.
798. Pieper, J., "Protection of Equipment Used for Storage and Transport of Motor Fuels Against Corrosion, with Special Consideration of the Fuel-Resistant Baked Lacquers," Korrosion . Metallschutz 20,56-60 (1944): Chem. Zentr. 1944, II, 1139; cf. C.A. 38, 3493.
799. Pier, M., W. Kronig, and V. Rank, Liquid Hydrocarbons, Ger. 734-074, March 11, 1943 (Cl. 12a 1.05). (to I. G. Farbenind. A.-G.).

800. Pines, R. M. and J. D. Spivack, "Rust-Preventive Properties of Nonylphenoxyacetic Acid in Some Petroleum Products," Corrosion 16, No. 1, Tech. Topics 16, 18-19 (1960).
801. Pinotti, P. L. and M. R. Barusch, High-Sulfur Diesel Fuel Containing Organic Lead Salts, U. S. Patent 2,691,572, Oct. 12, 1954 (to California Research Corp.).
802. Ploteghier, Mme, Removing Gums from Fuels, Fr. Patent 964,355, Aug. 11, 1950.
803. Poffenberger, N., Extraction and Recovery of Aromatic Hydrocarbons from Hydrocarbon Mixtures, U. S. Patent 2,711,433, June 21, 1955 (to Dow Chemical Co.).
804. Polishuk, A. T., R. M. Kennedy and J. L. Jezl, "Gas Solubility Studies of Jet Fuels," SAE Journal p. 73, 1959.
805. Pollitzer, E. L., Hydrocarbon Oil Composition, No. Drawing 3,012,964 Dec. 12, 1961 (assignor, by mesne assignments, to Universal Oil Products Co. Des Plaines, Ill.).
806. Pollitzer, E. L., Composition for Stabilizing Oils, U. S. Patent 3,012,964, June 24, 1958.
807. Polovoi, Yu. N., "Structural Group Analysis of Polymerized Shale Oil," Khim. i Tekhnol. Goryuch. Slantsev i Produktov ikh Pereabotki 1957-1958, No. 8, 231-6 (Pub. 1960).
808. Pomortseva, N. V., "Formation of Organic Acids and Aldehydes by Cultures of Pseudomonas pyocyanes (P. aeruginosa) in Oxidation of Hydrocarbons," Doklady Akad. Nauk S.S.S.R. 117, 896-9 (1957).
809. Pop, A. and I. Munteanu, "Analysis of Cracked Gases by means of Gas-Liquid Chromatography," Rev. Chim. (Bucharest) 12, 374-9 (1961).
810. Postgate, J., "A Diagnostic Reaction of Desulphovibrio desulphuricans," Nature, Vol. 163 : 481-2 (1959).
811. Powelson, D. M., "Microbial Growth in Fuel Storage Systems," Stanford Research Institute, Project No. B-3658, copy no. 142, June 1962.
812. Pratt, A. W. and N. L. Foskett, "The Commercial Separation of Light Hydrocarbons by Fractionation," The Science of Petroleum V Pt. II, Sec 1, Synthetic Products of Petroleum (Oxford University Press) 1953, p. 104.
813. Prefecture, Osaka, Corrosion-Preventing Agents for Iron and Steel (by Nobuaki Wada, Shoji Shimada, and Isao Maruishi) Japan 3763 (1959), May 20, 1959.

814. Prince, A. E., "Microbiological Sludge in Jet Aircraft Fuel," In Developments in Ind. Microbiol , 2, . 197-203, 1961.
815. Prince, A. E. and Bakanauskas, "Internal WADC Lab. Reports on Microbial Growth in Aircraft Fuels," 1956-1959.
816. Procter, C. M., "Preliminary Study of the Relation between bacterial growth and the corrosion of aluminum." Boeing Report No. D2-90142, Seattle, Wash., 1-29-63.
817. Prutton, C. F., D. R. Frey, D. Turnbull, and G. Dlouhy, "Corrosion of Metals by Organic Acids in Hydrocarbon Solvents," Ind. Eng. Chem. 37, 90-100 (1945).
818. Petroleum Research Laboratory (Carnegie Institute of Technology Pittsburgh 13, Penn.), "Publications of the American Petroleum Institute Research Project 6," from 1929 to year ending June 30, 1961 with one ref. for 1962.
819. Pyrah, A. F., and R. S. Robertson, "A Method for the Determination of Trace Amounts of Water in Hydrocarbons," J. Inst. Petrol. 45, 316-19 (1959).
820. Quam, N. G., "Preservation of Vehicles and Vehicle Components," Villanova U., Pa. Progress rept. 31 Dec. 1956 (Contract NBY-4712). AD-121-386.
821. Quimby, W. S., "Oil-Soluble Inhibitors for Controlling Corrosion in Tankers and Pipe Lines," Corrosion 16, No. 3, Tech. Topics pp. 9-10, 12, 14, 16, 18, 1960.

822. Rabovskaya, N. S. and D. A. Vyakhirev., "Gas-Chromatographic Analysis of Gaseous Hydrocarbon Mixture," Gazovaya Khromatografiya, Trudy 1-oi (Pervoi) Vsesoyuz. Konf., Akad. Nauk S.S.S.R., Moscow 1959, pp 225-230, (Pub. 1960).
823. Radecke, F. T., "To Combat Atmospheric Corrosion," Petroleum Engr. 26, No. 13, C 18-29, 1954.
824. Rajagopalan, K. S. et al., "Volatile Corrosion Inhibitors. I. Preliminary Investigation of Different Types of Compounds," Defence Sci. J. (New Delhi) 9, pp 212-221, 1959.
825. Ramiya, K. S. and R. Kh. Sil's., "Mechanism of Corrosion by Lubricating Oils and Protective Action of Additives," Trudy 3-ei (Tret'ei) Vsesoyuz. Konf. po Treniyz i Iznosu v Mashinakh; Akad. Nauk S.S.S.R., Inst. Mashinoved., 1958 3, pp 381-386 (Pub. 1960).
826. Ranucci, G. L., "Preliminary Research on the Possible Influence of Bacterial Metabolism on the Corrosion of Aluminum by Stagnating Water," Alumino 23, pp 399-411, 1954.
827. Raveux, R., "Production and Utilization of Methylglyoxal by Sterigmatocystis nigra. Possible Role in Lipogenesis," Compt.rend. 222, pp 157-158, 1946.
828. Raymond, R. L. and J. B. Davis., "N-alkane Utilization and Lipid Formation by Nocardia," Applied Microbiol. Vol. 8, No. 6 Nov. 1960.
829. Raymond, R. L., "Microbial Oxidation of N-paraffinic Hydrocarbons," Developments Indust. Microbiol. 2, pp 23-32, 1961.
830. Razin, S. et al., "The Degradation of Natural Polyamines and Diamines by Bacteria," Biochem. Journal 71, pp 551-558, 1959.
831. Razzell, W. E. and P. C. Trussell., "Isolation and Properties of an Iron-oxidizing Thiobacillus," J. Bacteriol 85(3), pp 595-603, 1963.
832. Reed, H. and C. Berg., "Shale-oil Retorting," Petroleum Engr. 20, No. 3, pp 214-218, Petroleum Processing 3, pp 1187, 1948.
833. Reed, D., "Process Systems Applicable to Military Aviation Fuel Manufacture," Petroleum Refiner 30, No. 3, pp 130-136, 1951.
834. Reed, D. "How and When to Inject Additive for Anti-icing Jet Fuel," Oil 60, No. 2, pp 85-86, 1962.

835. Reedy, P. M., Polysulfide Sealing Compound, U. S. Patent 2, 465,552, Mar. 29, 1949 (to Lockheed Aircraft Corp.)
836. Reiman, P. A. "Investigation of Parameters Affecting Aircraft and Missiles Fuel Filtration," Arthur D. Little, Cambridge, Mass. Rept. for Feb.-Oct. '60 on Liquid Propellant Servicing Equipment, May, 1961 (Proj. 6054). AD-271-466
837. Reimers, H. A., Sealing Deep Well Formations Such as Those Penetrated by Oil or Gas Wells, U. S. Patent 2,330,145, Sept. 21 (to the Dow Chemical Co.)
838. Rentrop, K. H., "Physicochemical Investigation of Petroleum Products," Freiberger Forschungsh A196, pp 37-42, 1960 (Pub. 1961).
839. Revukas, A. J., Fuel Composition, U. S. Patent 2,570,377, Oct. 9, 1951 (to Tide Water Associated Oil Co.)
840. Resnek, L., "Some Corrosion Problems of Tank Trucks and Their Solution," Corrosion 14, No. 9, Tech. Topics, pp 105-106, 108, 110-112, 1958.
841. Rhees, W. B., Process and Apparatus for the Demulsification of Hydrocarbons, U. S. Patent 2,400,713, May 21, 1946.
842. Ricards, H. A. et al., High Efficiency Hydrocarbon Separation Process, U. S. Patent 2,988,502, June 13, 1961.
843. La Riviere, J.W.M., "Production of Surface-active Compounds by Micro-organisms and its Possible Significance in Oil Recovery. I Change of Surface Tension in Microbial Culture," Antonie van Leeuwenhoek. J. Microbiol. Serol. Vol. 21, pp 1-8, 1955.
844. Robinson, J. B., "Application of Organic Inhibitors in Water Flooding," World Oil 142, No. 2, pp 156, 159-160, 162, 1956.
845. Robinson, R. B. and R. J. Uzdarwin., "Investigation of Stress-corrosion Cracking of High-strength Alloys," Aerojet-General Corp., Azusa, Calif. Annual Summary for 1 July 1960 - 30 June 1961 (Rept. No. 2092) Aug. 1961 (Contract DA-04-495-O'D-3069). AD-264-660
846. Rocchini, A. G. Fuel Oils, U. S. Patent 2,843,200 July 15, 1958 (to Gulf Research and Development Co.)
847. Rocchini, A. G. Fuel Oils, U. S. Patent 2,843,467 (to Gulf Research and Development Co.)
848. Rocchini, A. G. Mineral Compositions Containing Corrosion Inhibitors, U. S. Patent 2,604,451, July 22, 1952 (to Gulf Research and Development Co.)

849. Rodionova, K.F. "Transformation of Organic Substances Under the Influence of Microbes of Sea Muds and Petroleum in Connection with the Problem of Petroleum Formation," Pamyati Akad. J.M. Gubkina, pp 287-304, 1951.
850. Rogers, J.D. et al., "Jet Fuel Contamination: Water Surfactants, Dirt and Microbes," Paper 583c, Society of Automotive Engineers, National Aerospace Engineering and Manufacturing Meeting, Los Angeles, Calif., Oct. 8-12, 1962.
851. Rogers, M. R. and A. M. Kaplan., "A Field Survey of the Microbiological Contamination Present in JP-4 Fuel and 115/145 AV Gas in a Military Fuel Distribution System," Pioneering Research Div., Quartermaster Research and Engineering Center, Natick, Mass., Microbiological Deterioration Series Report No. 6, June 1963.
852. Rogers, T. H., "The Promotion and Acceleration of Metallic Corrosion by Microorganisms," Inst. Metals J. 75, pp 19-38, 1948.
853. Rogers, W. F., "Corrosion Problems in the Petroleum-Production and Pipe-line Industry," Corrosion 2, No. 1 pp 59-63, 1946.
854. Rogers, W. F., "Equipment Corrosion in High-pressure Wells," Oil Weekly 113, No. 13, pp 37-38, 1944.
855. Rogers, W. F., "Present Day Aspects with High Pressure Well Equipment Corrosion," World Oil 123, No. 6, pp 151, 157-158, 160, 161, 1948.
856. Rogers, W. F., "The Value of Ammonia Treatment for Tank and Casing Annulus Corrosion by Hydrogen Sulfide," Corrosion 11, pp 488t - 490t, 1955.
857. Rogoff, M., "Oxidation of Aromatic Compounds by Bacteria," U.S. Bureau of Mines Pittsburgh Coal Res. Center, Pittsburgh, Pa. Adv. In Appl. Microbiol 3, pp 193-221, 1961.
858. Rogoff, M. H. and I. Wender., "3-Hydroxy-2-naphthoic Acid as an Intermediate in Bacterial Dissimilation of Anthracene," J. Bacteriol 74(1), pp 108-109, 1957.
859. Roll, F., "Behavior of Malleable Cast Iron Under the Effect of Corrosion," Werkstoffe u. Korrosion 12, pp 209-215, 1961.
860. Rosen, M. J., "Detection, Isolation and Isolation and Identification of Surface-active Agents," J. Soc. Cosmetic Chemists 12, pp 98-106, 1961.
861. Rosenfeld, W. D., "Anaerobic Oxidation of Hydrocarbons by Sulfate-Reducing Bacteria," J. Bacteriol. 54, pp 664-665, 1947.

862. Rosin, P. O., "Surface: A Common Problem of Research and Engineering in Fuel Technology," 1959 Melchett Lecture, J. Inst. Fuel 33, pp 50-63, 1960.
863. Rossini, F. D. et al., "Hydrocarbons from Petroleum," New York: Reinhold Pub. Corp. 1953.
864. Rossini, F. D., "Hydrocarbons in Petroleum," Jour. of Chem. Ed. Vol. 37, No. 11, pp 554-560, Nov. 1960.
865. Rossini, F. D. and B. J. Mair, "The Work of the API Research Project 6 on the Composition of Petroleum," 1959 Fifth World Petroleum Congress, New York, Reprint Section 5, No. 8.
866. Rossini, F. D. and B. J. Mair, "The Work of the API Research Project 6 on the Composition of Petroleum," Chemistry and Petroleum Research Laboratory, Carnegie Inst. Tech. Paper 18, 1959 5th World Petroleum Congress.
867. Rossini, F. D. and B. J. Mair., "Summary of 159 Hydrocarbons Isolated from one Representative Petroleum," Chem. and Eng. Data Ser. 3, pp 141-145, 1958.
868. Rottig, W., Antiknock Gasoline, German Patent 1,036,837, Aug. 21, 1958.
869. Rouf, M. A. and J. L. Strokes., "Isolation and Properties of Sphaerotilus discophorus," Bacteriol Proc. pp 41, 1962 (Abstract)
870. Rouf, M. A. and J. L. Strokes., "Isolation and Identification of the Sudanophilic Granules of Sphaerotilus natans," J. Bacteriol, 83 (2) pp 343-347, 1962.
871. Rowan, R. Jr., "Identification of Hydrocarbon Peaks in Gas Chromatography by Sequential Application of Class Reactions," Anal. Chem. 33, pp 658-665, 1961.
872. Rozanova, E. P. and L. D. Shturm, "Amino Acids Released to the Medium by Microorganisms Grown on Petroleum, and the Genesis of Ozocerite Type Bitumens," Mikrobiologiya 29, pp 710-714, 1960.
873. Rozanova, E. P. and L. D. Shturm., "Study of Amino Acids Released into the Medium by Microorganisms Growing on Petroleum, with Reference to the Genesis of Ozocerite-like bitumens," Microbiologiya 29, pp 513-516, 1961.
874. Rozhkov, I. V. et al., "A Rapid Method for Evaluating the Corrosivities of Liquid Fuels," Khim. i Tekhnol. Topliv i Masel 7, No. 2, pp 60-64, 1962.

875. Rubin, B. and R. J. Burger., "A Study of the Rust-preventive Properties of Greases," Materials Lab., Wright-Air Dev. Ctr., Wright-Patterson Air Force Base, Ohio, report Mar. 1953 (AF Tech. Rept. No. 6386). AD-13-205
876. Ruff, A. E. and A. D. Delman., "Influence of Molecular Structure and Substituents on the Antiozonant Properties of Aryl Diamine Chemicals," Materials Lab., New York Naval Shipyard, Brooklyn, Final Technical Research and Development Rept., Mar. 4, 1957 (Lab. Proj. No. 5850-A-2). AD-134-368
877. Hupprecht, R., and H. Franz., Separation of Paraffins from Hydrocarbons by Urea-adduct Formation, German Patent 1,098,657, Feb. 2, 1961.
878. Ruttevit, K., "Chemical Corrosion of Zn Alloys," Korrosion u. Metallschutz 18, pp 365-368, 1942; Chem. Zentr. II, 666, 1943.
879. Ryker, D. W. Hydrazine Compositions Having Low Freezing Points, U. S. Patent 2,768,888, Oct. 30, 1956 (to Olin Mathieson Chemical Corp.)
880. Ryker, D. W. Hydrazine, U. S. Patent 2,768,309, Jan. 1, 1957 (to Olin Mathieson Chemical Corp.)
881. Ryzhova, V. N. and M. C. Ivanov., "Microbiological Studies of the Karpat Sulfur Beds. VI. The Utilization of the Dispersed Organic Substance of Sedimentary Rocks for Sulfate Reduction," Mikrobiologiya 30, pp 1075-1079, 1961.

882. Sablina, Z. A. and A. A. Gureev, "Incremental Stabilization of Fuels with Antioxidants," Khim. i Tekhnol. Topliva, No. 7, pp. 61-64, 1956.
883. Sach, J. S., "Coal Tar Fuels: Their Derivation, Properties and Application," London: Assoc. of Tar Distillers, 137 pp., 1944. Reviewed in Chem. Trade J. Volume 115, pp. 256, 1944, and in Engineering Volume 158, pp. 363, 1944.
884. Sakurai, Z., Fuel Oil Additive, Japan Patent 2223, Apr. 11, 1957, (to Nippon Fats and Oils Co.).
885. Savoy, M., Breaking Water-in-Oil Emulsions, U. S. Patent 2,457,735 Dec. 28, 1948 (to Pure Oil Co.).
886. Sazonova, I. V., "Results of Research on Microflora from under the Petroleum Layer of Petroleum Fields of the Kzelizshevskaya Oblast," Biol. Abst. 23265, Trudy Inst. Mikrobiol. Akad. Nauk. S.S.S.R. 9, 121-3 (1961)
887. Scarth, V., Extractive Distillation with Furfural, Patent 2,404,253, Nov. 12, 1946 (to Phillips Petroleum Co.).
888. Schab, H. W., "Problems Associated with Water-Contaminated Jet Fuels," J. Am. Soc. Naval Engrs., Volume 72, pp. 41-59, 1960.
889. Schad, H. G., "Internal Corrosion of Products Pipe Lines. Keystone-Buffalo Pipe-Line System," Proc. Am. Petrol. Inst., Sec. IV, 24, pp. 44-55, 1943.
890. Schatzberg, P., "Solubilities of Water in Several Normal Alkanes From C₇ to C₁₆," Physical Chemistry, Volume 67, p. 776, 1963.
891. Scheibel, E. G., "Separation of Aromatic (Hydrocarbons) and Paraffins by Solvent Extraction," Separation Processes in Practice, Collect. Papers, Philadelphia, pp. 158-177, 1961 (York Process and Equipment Corp.).
892. Schick, F., Fuel Oil, Ger. Patent 733,467, Feb. 25, 1943 (to Deutsche Erdol-A. -G.).
893. Schikorr, G. and J. E. Schaller, "Rusting of Fe in the Chemical Laboratory," Oesterr. Chem. -Ltg., Volume 45, pp. 134-139, 1942.
894. Schirmer, R. M., et. al. Paraffin Hydrocarbon Fuel for Pulse-Jet Engines, U. S. Patent 2,688,840, Sept. 14, 1954, (to Phillips Petroleum Co.).
895. Schlapfer, P. and A. Bukowiecki, "Corrosion of Metals by Motor Fuels," Journées Corrosion Metaux, (Suppl. to Rev. Inst. Franc. Petrole et Ann Combustibles Liquides 4 No. 1 (1949) pp. 3-18, Oct. 1947.
896. Schlapfer, P. and A. Bukowiecki, "Corrosion of Metals by Motor Fuel Components," Schweiz. Arch. Angew. Wiss. Tech., Vol. 14, pp. 257-274 (1958).

897. Scholly, P. R. and N. Brenner., "Comparative Retention Values of Representative Sample Types on Standard Gas Chromatography Columns," Gas Chromatog., Intern. Symposium, 2nd, East Lansing, Mich., 1959 pp. 263-309, 1961.
898. Schotten, W., "Metabolism of Iron Bacteria and Actinomyces," Pharmazie, Volume 3, pp. 257-259, 1948.
899. Schultz, E. B. Jr., "The Fuel Cell," J. Petrol. Technol., Volume 14, pp. 125-128, 1962.
900. Schwartz, W. and A. Muller, "Petroleum Bacteriology," Erdol u. Kohle, Volume 1, pp. 232-240, 1948.
901. Schweiker, G. C. and P. Robitschek, Condensation Elastomers Containing Fluorine, U. S. Patent 3,016,360 Jan. 9, 1962. (to Hooker Chem. Corp.)
902. Scott, J. W., Jr. and F. M. Hazard, Jr., Adsorption Separation of Liquid Hydrocarbons, U. S. Patent 2,797,190 June 25, 1957, (to California Research Corp.)
903. Scott, W. R., Jr. et. al., "Mechanism of Corrosion and Corrosion Inhibition of Steel in Weak Acid Solution: Determination of Quantitative Local Cell Polarization Curves," Final Technical Report, 2 Feb., 1959, Magna Products Inc., Santa Fé Springs, Calif. AD-213-227
904. Scott, W. R. and G. H. Rohrback, "A Hydrogen-Evolution Method for Evaluation of Corrosion Inhibitors for Oil Wells," Corrosion, Volume 8, pp. 234-240, 1952.
905. Sechrist, C. N. and H. H. Hammen, "Radiotracer Studies of Engine Deposit Formation," Ind. Eng. Chem., Volume 50, pp. 341-342, 1958.
906. Secrist, J. H., Noncorrosive Metal-Cleaning Composition, U. S. Patent 2,599,729, June 10, 1952, (to Detrex Corp.).
907. Seeler, G., "Untersuchungen Uber Den Oxydativen Abbau Von Alkanen Durch Nocardia petroleophila," Archi Fur Mikrobiologie, Volume 43, pp. 213-233, 1962.
908. Senez, J. C. and E. Azoulay., "Dishydrogenation D' Hydrocarburesparaffiniques Par Les Suspensions Non-Proligerantes Et Les Extraits De Pseudomonas aeruginosa," Biochem. Biophys. Acta., Volume 47, pp. 307-316, 1961.
909. Senez, J. C., "Some Considerations of the Energetics of Bacterial Growth," ONR Lecture, ASM, Chicago, Ill., 23 April 1961.
910. Senez, J. C. and E. Azoulay., "Dehydrogenation of Paraffinic Hydrocarbons by Resting-Cells and Cell-Free Extracts of Pseudomonas aeruginosa," Biochem. et Biophys. Acta, 47 (2), pp. 307-316, 1961.

- 910a. Senez, J. C. and E. Azoulay, "Pathway of Lower Alkane Oxidation by Pseudomonas," Bacteriol. Proc., p. 43, 1961.
911. Sergienko, S. R. et. al., "Adsorption Properties of High-Molecular Hydrocarbons Having a Mixed Structure," Doklady Akad. Nauk. S.S.S.R., Vol. 128, pp. 769-772, 1959.
912. Sergienko, S. R. and P. N. Galich, "Tar Formation During Oxidation of Hydrocarbons. II. Effect of "Hydrocarbon" Group Composition of Diesel Fuels on the Direction of Oxidation," Zhur. Priklad. Khim., Vol. 29, pp. 1568-1580, 1956.
913. Shannon, D. W. and J. E. Boggs, "An Analytical Procedure for Testing the Effectiveness of Hydrogen Sulfide Corrosion Inhibitors," Corrosion, Volume 15, pp. 303-6, 1959.
914. Shannon, D. W. and J. E. Boggs, "Factors Affecting the Corrosion of Steel by Oil-Brine-Hydrogen Sulfide Mixtures," Corrosion, Volume 15, pp. 299t-302t, 1959.
915. Shaposhnikov, V. N., "The Physiology of Microorganism Metabolism- the Basis of a Rational Technology of the Use of Microorganisms in Industrial Processes," Trudy Inst. Mikrobial Akad. Nauk S.S.S.R. 6, 5-12, 1959; Referat. Zhur., Biol., 1961, No. 15B 335.
916. Sharpley, J. M., "Introduction," Developments in Industrial Microbiol. Volume 2, pp. 3-5, 1961.
- 916a. Sharpley, J. M., "Microbiological Corrosion in Waterfloods," Corrosion, 17, 92, 1961.
917. Sharpley, J. M., "A Technique For the Direct Estimation of Bacteria in Oil Field Waters," Dev. Ind. Microbiol. 1, 253, 1960.
918. Sheldahl, D. B., Corrosion Prevention, U. S. Patent, 2,598,725, June 3, 1952 (to Sinclair Refining Co.).
919. Shell Internationale Research, Maatschappij, N. V., Improvements in or Relating to Fuels and their Preparation, London Patent Office, 870,431, June 14, 1961.
920. Shell Internationale Research, Maalschappij, N. V., Thermally Stable Jet Fuel, Brit. Patent 870,431, Appl. Oct. 6, 1959.
921. Shepard, S. W., "Corrosion Testing in a Chemical Plant," Chem. and Met. Eng., Volume 53, No. 4, pp. 217-226, 1946.
922. Sherwood, P. W., "Liquid-Phase Permeation," Petroleum, Volume 25, pp. 52-54, 1962.
923. Shields, J. E., Corrosion Inhibitors Suitable for Use with Various Liquids to Inhibit Corrosive Action on Iron or Aluminum or Their Alloys, U. S. Patent 2,330,524, Sept. 28 (to Alox Corp.).

924. Shimazee, A., "Infrared Spectrophotometric Analysis and the Petroleum Industry," Abura Kakaku, Volume 5, pp. 227-346, 1956.
925. Shiro, I. S. et al., "Microbial Production of Amino Acids from Hydrocarbons. I. Preliminary Screening of Glutamic Acid Producing Bacteria," J. Gen. Appl. Microbiol. 9 (1), pp. 23-30, 1963.
926. Shock, D. A. and J. D. Sudbury, "Corrosion Control in Gas-Lift Wells," Corrosion, Volume 8, pp. 296-299, 1952.
927. Shock, D. A. and J. D. Sudbury, "Prediction of Corrosion in Oil and Gas Wells," World Oil, 133, No. 5, pp. 180,182,184,187-188,192, 1951.
928. Shturm, L. D., "Studies on Hydrocarbon Assimilation by Microorganisms," Mikrobiologiya, 27 (6), pp. 723-733, 1958.
929. Shturm, C. D., "The Influence of Ecological Factors on the Microorganisms of Petroleum Fields," Trudy Inst. Mikrobiol. Akad. Nauk. S.S.S.R., 9.23-31, 1961, Referat. Zhur. Biol. 1962, No. 2B 267.
930. Shturm, L. D., "Utilization of Molecular Hydrogen by Sulfate-Reducing Bacteria of Oil Deposits," Mikrobiologiya (Trans.) 26 (6), pp. 684-688, 1957.
931. Shuman, F. R., Jr., Jet Engine Fuels, U. S. patent 2,916,466, Dec 8, 1959 (to Sun Oil Co.).
932. Society of Industrial Microbiology News letter, Vol. 12, July 1962.
933. Simakova, T. C., et. al, "The Role of Bacteria in the Transformation of Hydrocarbons and Asphaltobituminous Components of Paraffin-base Petroleum Under Anaerobic Conditions," Trudy Inst. Neftyanogo Nauchn.-Issledovatel. Geol. razvednogo Inst. 174. 77-97, 1961 (in Russian) Referat. Zhur., Khimiya, No. 6M130, 1962.
934. Simakova, T. L., et al, "Bacterial Change in Petroleum and Their Components Under Anaerobic Conditions," Trudy Inst. Mikrobiol. Akad. Nauk S.S.S.R. 9. 81-85, 1961, Referat. Zhur. Biol. No. 2B 268, 1962.
935. Simmons, M. C. and T. R. Kelley, "Quantitative Analysis of Complex Samples of Gas-liquid Chromatography and Mass Spectrometry," Gas Chromatog. Intern. Symposium, 2nd. East Lansing, Mich., 1959, pp. 224-36, (pub. 1961).
936. Simmons, M. C. and L. R. Snyder, "Two Stage Gas-liquid Chromatography," Anal. Chem. 30, pp. 32-5, 1958.
937. Simon, J., et al, "Gas-chromatographic Analysis of Various Liquid Hydrocarbons and Oxygen Containing Samples," ACTA Chim. Acad. Sci. Hung. 27, pp. 321-33, 1961.

938. Singerman, H. H., "Development of a Metal-Conditioning Compound Resistant to Salt Water Spray," Naval Engineering Experiment Station, Annapolis, Md. Specification Development Rept. No. 610546A, 8p. 7 Nov. 60. AD-254-351L
939. Sisler, E. D., and C. E. Zobell, "Hydrogen Utilization by Some Marine Sulfate-Reducing Bacteria," J. Bact. 62, 117-27 (1951).
940. Skeen, J. R., and F. De Snell, "Surface-Active Agents from Petroleum, History and Statistics," World Petroleum Congr., Proc., 3rd Congr., Hague, Sect. V, 119-26, 1951.
941. Skolnik, S., and H. W. Kruse, Jet Engine Fuel, U.S. 2,712,496, July 5, 1955, (to the United States of America as represented by the Secy. of the Navy).
942. Slavina, G. P. "A Study of Bacterial Processes of Underground Oxidation of Hydrocarbons," Mikrobiolgiya 30, 985-9 (1961).
943. Sleeper, B. P., "The Bacterial Oxidation of Aromatic Compounds," J. Bacteriol. 62, 657, 1951.
944. Smekal, O. A. V., and M. E. Pokorova, Treatment of Tar Oils, Heavy Oils, Tar Residuums, Oil Residuums and Sike Materials. Brit. 552,420, Apr. 1943.
945. Smirnova, Z. S., "The Effects of Microbiological Processes on the Composition of Gas in Marsh Fluid," Trudy Vsesoyus. Nauch-Issledovatel. Geologorazvedoch. Neft. Inst. No. 11, 176-84, 1958.
946. Smith, H. G., T. L. Contrell, and John G. Peters, Addition Agents for Mineral Oils, U. S. 2,507,055, May 9, 1950, (to Gulf Oil Corp.).
947. Smith H. G., T. L. Contrell, and John G. Peters, Corrosion Inhibitors for Mineral Oils, U. S. 2,699,427, Jan. 11, 1955, (to Gulf Oil Corp.).
948. Smith, H. G., T. L. Contrell, and John G. Peters, Diesel Fuel, U.S. 2,433,243, Dec. 23, 1947, (to Gulf Oil Corp.).
949. Smith, H. G., T. L. Contrell, and John G. Peters, Mineral-Oil Compositions, U. S. 2,689,838, Sept. 21, 1954, (to Gulf Oil Corp.).
950. Smith, H. G., T. L. Contrell, and Mark L. Hill, Primary Aliphatic Amine Salts of Dialiphatic Substituted Monothiothosphoric Acids, U. S. 2,447,288, Aug. 17, 1948, (to Gulf Oil Corp.).
951. Smith, H. G., T. L. Contrell, Rust-Preventing Lubricating Composition, U. S. 2,371,851, March 20, 1945, (to Gulf Oil Corp.).
952. Smith, J. O., Jr., and A. R. Jones, Stabilizer for Petroleum Products, U. S. 2,676,926, Apr. 27, 1954, (to Standard Oil Development Co.).

953. Smith, J. O., G. R. Wilson, and H. F. Martin, "Effects of Selected Strains of Microorganisms on the Composition of Fuels and Lubricants," Monsanto Research Corporation, Quarterly Progress Report No. 1, Contract AF 33(657) 9814, Dec. 15, 1962.
954. Smith, L. W., "Corrosion Tests of Multi-Arc Welded High-Strength Aluminum Alloys," (Cornell Aeronautical Lab., Buffalo, N. Y.), Trans. Electrochem. Soc. 89, 22 pp. (1946) (Preprint).
955. Smith, P., Additives for Jet-Engine Fuels for Aiding Starting of the Engines, Ger. Patent 1,083,591, June 15, 1960.
956. Smith, W. M., and R. F. Neblett, Gasoline Composition, No. Drawing 2,955,928, Oct. 11, 1960.
957. Sneed, R. W., R. W. Altman, and J. C. Mosteller, "Effect of Aviation-Fuel Components on the Accuracy of the Karl Fischer Electrometric Titration," Anal. Chem. 26, 1018-20 (1954).
958. Snyder, L. R., "Application of Linear Elution Adsorption Chromatography to the Separation and Analysis of Petroleum I. Compound Class Separations Over Al_2O_3 and SiO_2 ," Anal. Chem. 33, 1527-34 (1961).
959. Societe Chimique et Rontiere de la Gironde, Improving the Adhesitivity of Hydrocarbon Binders for Coating Compositions, Fr. Patent 1,192,573, Oct. 27, 1959.
960. Socony Mobil Oil Co., Inc., High Temperature Separation of Straight Chain Hydrocarbons, London Patent 826,608, Jan. 13, 1960.
961. Solari, A. A., M. Herrero, and M. S. D. de Cremaschi, "Biochemical Properties of Pseudomonas aeruginosa. I. Action on Hydrocarbons," Rev. fac. cienc. quim., Univ. ned. La. Plata 21, 45-8 (1959).
962. Sorg, L. V., Transporting Petroleum Distillates, U. S. Patent 2,473,455, June 14, 1949 (to Standard Oil Co. of Indiana).
963. Souillard, G., Separation or Purification of Hydrocarbons, Fr. Patent 1,022,411, March 4, 1953.
964. Spencer, C. F. and J. F. Johnson, "Analysis of Phenylalkanes by Gas Chromatography," J. Chromatog. 4, pp. 244-48, 1960, cf. Anal. Chem. 30, pp. 893, 1958.

965. Spengler, G. and E. K. Jantzen, "Separation of Hydrocarbon Mixtures by Adsorption and Preparative Methods. VI. Studies on Hydrocarbon Fractions. 2, The Separation of Isoparaffins," Fette, Seifen, Anstrichmittel 63, pp. 530-539, 1961; cf CA 55, pp. 2074e, 2147d.
966. Sperry, R. L., Alkali ω Cyanoguanidodithiocarbonates, U. S. Patent 2,368,894, Feb. 6, 1945 (to American Cyanamid Co.).
967. Spruit, C. J. P. and J. N. Wanklyn., "Iron/Sulphide Ratios in Corrosion by Sulphate-Reducing Bacteria," Nature, Vol. 168, pp. 951-952, Dec. 1951.
968. Spurny, M. and M. Dostalek., "Microbiology of Water from Deep Petrofiferous Formations," Prace Ustavu pro Naftovy vyzkum Publ. No. 26-30, pp 58-88, 1956.
969. Standard Oil Co., Ohio, "Microbiological Fuel Contamination": Internal Report, February 1962.
970. Standard Oil Development Co., Improvement in Oxidation Resistance of Rust-proofing Compositions, British Patent 580,845, Sept. 23, 1946.
971. Standard Oil Development Co., Surface-coating Compositions, British Patent 585,213, Feb. 3, 1945 (see U.S. Patent 2,394,516).
972. Stanier, R. Y., "The Oxidation of Aromatic Compounds by Fluorescent Pseudomonads," J. Bacteriol. Vol. 55, 1948.
973. Stanley, M. E. et al., "Corrosion Prevention of Petroleum Transportation Facilities; Relation of Laboratory Tests to Field Tests," Am. Chem. Soc., Div. Petrol. Chem., Preprints 1, No. 3, Gen. Papers, pp. 281-288, 1956.
974. Stark, L. L. and J. C. Estabrooke, "Design, Development, and Evaluation of Military-design Filter/Separators," Army Engineer Research and Development Labs., Fort Belvoir, Va. Technical Report No. 1716-TR, 29 June 1962 (Proj. 8M53-03-001-09) AD 283-822.
975. Starkey, R. L., "Sulfate-reducing Bacteria-Physiology and Practical Significance," Lecture-Univ. of Maryland 1960-61.
976. Stateczny, W., "Technology of Coal Tar," Przemysli Chem. 4, pp. 283-285, 1948.
977. Stayner, R. D. and R. A., Ampholytic Surface-active Agents, U. S. Patent 2,699,991, Jan. 18, 1955 (to California Research Corp.).
978. Stayner, R. D. et al., Fuel Oil, U.S. Patent 2,786,745, Mar. 26, 1957 (to California Research Corp.).

979. Stayner, R. D. and R. A., Inhibitor of Corrosion and Sludge Formation in Fuel Oils, U.S. Patent 2,665,978, Jan. 12, 1954 (to California Research Corp.).
980. Stedman, R. F., Refining of Hydrocarbons, U.S. Patent 3,023,160, Feb. 27, 1962 (to Universal Oil Products Co.).
981. Steinberg, H., et al. Means for Preventing Icing in Jet Fuels, U.S. Patent 2,960,819, Nov. 22, 1960 (to United States Borax and Chemical Corp.).
982. Steiner, A. B., Oil-in-water Emulsion, U.S. Patent 2,455,820, Dec. 7, 1948 (to Kelco Co.).
983. Stevens, D. R. and A. C. Dubbs, Antioxidants for Oils and Oil Compositions Containing the Same, U.S. Patent 2,570,402, Oct. 9, 1951 (to Gulf Research and Development Co.).
984. Stevens, D. R. and E. L. Fareri, Fuel Oil, U.S. Patent 2,699,385, Jan. 11, 1955 (to Gulf Research and Development Co.).
985. Stevens, W. H., "Oil and Solvent-resistant Coatings," Product Finishing (London) 8, No. 4 pp. 73-78, 118, 1955.
986. Stewart, J. E. et al., "Esters from Bacterial Oxidation of Olefins," Science 132(3435) pp. 1254-1255, 1960.
987. Stewart, J. E. et al., "Bacterial Hydrocarbon Oxidation. I. Oxidation of n -Hexadecane by A Gram-negative Coccus," J. Bacteriol 78(3) pp. 441-448, 1959.
988. Stewart, J. E. and R. E. Kallio, "Bacterial Hydrocarbon Oxidation. II. Ester Formation from Alkanes," J. Bacteriol 78(5) pp. 726-730, 1959.
989. Stewart, J. E., "Microbial Oxidation of Hydrocarbons," Diss Abs. 19(7) pp. 1522-1523, Jan. 1959.
990. Stoltenberg, H. A., "Oxygen-concentration Effect on Flood-water Ion Pickups," World Oil 128, N. 9, pp. 154, 156, 1949.
991. Stone, R. W. et al., "Bacteria Attacking Petroleum and Oil Fractions," J. Bacteriol. 44, pp. 169-178, 1942.
992. Stormont, D. H., "Do Jet Fuel Bacteria Cause Slime Corrosion?" Oil Gas J. 59(27) pp. 82-84, July, 1961.
993. Stormont, D. H., "Boron Additive Helps NYC Combat Bacterial Fouling of Diesel Fuel," The Oil and Gas Journal, Sept. 17, 1962.

994. Stormont, D. H. "Surfactants Add to Jet Fuel Problems," Oil Gas J. 59, No. 46, 117-18 (1961).
995. Strawinski, R. J. and R. W. Stone, "Biological Oxidations of Naphthalene" Canadian J. Microbiol 1:206-210, 1954.
996. Strawinski, R. J., Purification of Substance by Microbial Action, U.S. 2,574,070, Nov. 6, 1951, (to Texaco Development Corp.).
997. Streets, W. L., "Gas Turbine and Jet Engine Fuels," Phill Petroleum Co., Bartlesville, Okla., Progress Rept. No. 7, 22 p. March 1962. AD-275-927
998. Streets, W. L., "Gas Turbine and Jet Engine Fuels", Phillips Petroleum Co., Bartlesville, Okla., Bimonthly progress rept. No. 6, 23 p. Jan. 62. AD-273-147.
999. Streets, W. L., "Gas Turbine and Jet Engine Fuels", Phillips Petroleum Co., Bartlesville, Okla., Bimonthly progress rept. No. 5, 4 p. 7 Dec. 61. AD-269-189.
1000. Streets, W. L., "Gas Turbine and Jet Engine Fuels," Phillips Petroleum Co., Bartlesville, Okla., Progress rept. No. 7, 22 p. Mar 1962 . AD-275-927.
1001. Streets, W. L., "Gas Turbine and Jet Engine Fuels," Phillips Petroleum Co., Bartlesville, Okla., Bimonthly progress rept. No. 3, 11 p. 17 July 61. AD-265-273.
1002. Streets, W. L., "Gas Turbine and Jet Engine Fuels," Phillips Petroleum Co., Bartlesville, Okla., Bimonthly progress rept. No. 6, 4 p. 9 Nov. 60. AD-261-023
1003. Streets, W. L., "Gas Turbine and Jet Engine Fuels," Phillips Petroleum Co., Bartlesville, Okla., Bimonthly progress rept, No. 4, 9 p. 15 Jan. 63, AD-295-635.
1004. Streets, W. L., "Gas Turbine and Jet Engine Fuels", Phillips Petroleum Co., Bartlesville, Okla., Bimonthly progress rept. No. 2. 16 p. 24 Aug. 62. AD-284-341.
1005. Subbota, M. I., "Field Method for Mapping Bacteria in Oil Prospecting," Rasvedka Nedr 13, No. 3, 20-4 (1946).
1006. Sulzer Brothers Ltd., Additives for Gas-Turbine Fuels, Swiss 314,443, July 31, 1956 (CI. 104d).
1007. Sulzer Brothers Ltd., Stabilization of Dispersions of Additives in Fuel Oils, Swiss 306,389, June 16, 1955 (CI. 38b).

1008. Sulzer, P. T., "The Influence of Fuel Additives upon Oil-Ash Deposits," Schweis Arch. angew. Wiss u Tech. 18,379-30 (1952).
1009. Svetozarova O. I., "Separation of C₈ Aromatics and O-Xylene from Petroleum Products Processed at Grozny," Tr. Groznensk. Neft. Nauchn-Issled. Inst. 1959, No. 4,236-52.
1010. Swatek, F. E., "Fundamentals of Microbiological Contamination of Liquid Hydrocarbon Fuels," Soc. of Auto. Engineers, Paper 651A, Jan 1963, Detroit, Mich.
1011. Sweeney, W. J., Corrosion Inhibitor for Fuel Oil, Can. 421,568, July 18, 1944, (to Standard Oil Development Co.).

1012. Taggart, M. S., Utilization of Hydrocarbons by Bacterial Fermentation, U. S. Patent 2,396,900, Mar. 19, (to Standard Oil Development Co.)
1013. Talley, S. K., and L. D. Grenot, Testing the Corrosion of Materials, U. S. Patent 2,351,644, June 20, 1944, (to Shell Development Co.)
1014. Tandy, E. H., "Corrosion in Light-Oil Storage Tanks," Corrosion, Vol. 12, pp 427t-432t, 1957.
1015. Tate, Donna V., "A Review of the Air Force Materials Research and Development Program," Report No. WADC TR53-373, suppl., June 1961. AD-276-267
1016. Taylor, J. J., Film Forming Oil Stabilized with Dibasic Lead Phosphite, U. S. Patent 2,783,160, Feb. 26, 1957 (to Jolly J. Taylor).
1017. Taylor, J. J., Stabilized Petroleum Oil, Grease and Wax Compositions Containing Dibasic Lead Phosphite, U. S. Patent 2,975,129, Mar. 14, 1961 (to Jolly J. Taylor).
1018. Taylor, J. J., Antioxidant for Petroleum Products, U. S. Patent 2,975,129, Mar. 14, 1961 (to Jolly J. Taylor).
1019. Teichmann, C. F., Oil Field Distillate, U. S. Patent 2,357,703, Sept. 5, 1944 (to Texaco Development Corp.)
1020. Telegina, Z. P., "Carbon Balance During Propane-Oxidation by Cultures of Mycobacterium lacticolum," Microbiologiya, Vol. 30, pp. 912-16, 1961.
1021. Telegina, Z. P., "Relationship of Some Species of Gaseous Hydrocarbon-Oxidizing Bacteria to Hydrocarbons of the Paraffin Series," Microbiologiya Vol. 30 (3) pp. 370-373, 1961.
1022. Teranishi, C. C. et. al., "Gas-Liquid Chromotography," Anal. Chem., Vol. 32, pp. 1384-6, 1960.
1023. Thijsse, G. J. E., and J. T. Zwilling-DeVries, "The Oxidation of Straight and Branched Alkanes by Pseudomonas Strains," Antonie van Leeuwenhoek, Jour. Microbiol and Sereol, Vol. 25, pp. 332-6, 1959.
1024. Thijsse, G. J. E. and A. C. Van der Linden, "N-Alkane Oxidation by a Pseudomonas Studies of the Intermediate Metabolism," Antonie van Leeuwenhoek, Jour. Microbiol and Sereol, Vol. 24, pp. 298-308, 1958.
1025. Thijsse, G. J. E. and A. C. Van der Linden, "Pathways of Hydrocarbons Dissimilation by a Pseudomonas as Revealed by Chloramphenical," Antonie van Leeuwenhoek, Jour. of Microbiol. and Serol, Vol. 29 (1), pp. 89, 100, 1963.

1026. Thompson, F. E. A. and F. A. Fidler, Aviation Turbojet Fuels, British Patent 833,629, Apr. 27, 1960 (to British Petroleum Co. Ltd.)
1027. Thompson, F. E. A. and F. A. Fidler Fuel for Aircraft Turbine Engines, German Patent 1,067,635, Oct. 22, 1959, (to British Petroleum Co. Ltd.)
1028. Thompson, R. B., Corrosion Inhibitors for Organic Liquids Containing Water, U. S. Patent 2,968,629, Jan. 17, 1961, (to Universal Oil Products Co.)
1029. Thompson, R. B., Corrosion Inhibitor for Organic Liquids Containing Water, U. S. Patent 2,939,842, June 7, 1960 (to Universal Oil Products Co.)
1030. Thompson, R. B. et. al., "Evaluation of Organic Corrosion Inhibitors for Special Applications in Petroleum Refining," Corrosion, Vol. 15, pp. 321t-326t, 1959.
1031. Thompson, R. B., Separation of Hydrocarbon Mixtures Containing Relativity Straight-Chain Components, U. S. Patent 2,944,093, July 5, 1960 (to Universal Oil Products Co.)
1032. Thompson, R. B., Stabilization of Sweet Hydrocarbon Distillates, U. S. Patent 2,728,711 Dec. 27, 1955, (to Universal Oil Products Co.)
1033. Thompson, R. B., Corrosion Inhibitor, U. S. Patent 2,939,842, June 7, 1960 (to Universal Oil Products Co.)
1034. Thompson, R. B., Desoxycholic Acid as a Separating Agent, U. S. Patent 2,880,254, Mar. 31, 1959 (to Universal Oil Product Co.)
1035. Thompson, R. B., Process for Storage Properties of Substantially Sweet Hydrocarbon Distillates by Treatment with Alcohol-Alkali Reagent, U. S. Patent 2,728,711 Dec. 27, 1955 (to Universal Oil Products Co.)
1036. Toby, E. M. Jr., "Position of Petroleum in the Protective-Coating Industry," Paint, Oil and Chem. Vol 114 (22), pp. 9-10, 40-41, 1951.
1037. Topchiev, A. V., S. S. Nifontova, et. al., "A Technique for the Isolation of Aromatic Hydrocarbons from the Middle (Kerosine) Distillates of Petroleum," Doklady Akad. Nauk. S. S. S. R., Vol. 134, pp. 1378-1380 (1960).
1038. Touhey, W. J., "Antioxidants for GR-S Rubber", Tech. Rept. July 15, 1953. AD-18-255

1039. Tourboir, P., "Stability of Fuel Oil," Suensk Kein. Tidshi, Vol. 73, pp. 516-25 (1960).
1040. Treccani, U. and L. Canonica, "Microbial Oxidation of Aliphatic Hydrocarbons. I. Activity of a Psychrophilic Bacterium Upon Pure Saturated Aliphatic Hydrocarbons with High Molecular Weights," Ann. Microbiol., Vol. 5 (3/16) pp. 162-172 (1953).
1041. Treccani, U. and L. Canonica, et. al., "Microbial Oxidation of Hydrocarbons. II. Cultural and Manometric Researches Upon Oxidative Metabolism of Several Bacteria in Respect to Hydrocarbons with Even and Uneven Carbon Atoms," Ann. Microbiol., Vol. 6 (3/5) pp. 183-199 (1955).
1042. Treccani, U. and L. Canonica, "Microbial Oxidation of Aliphatic Hydrocarbons," Internatl. Congr. Microbiol. Proc. Sixth, Vol. 1, pp. 274-275 (1955).
1043. Treseder, R. S. et. al., "Sulfide Corrosion Cracking of Oil-Production Equipment. A Report of Technical Unit Committee 1-G on Sulfide Stress Corrosion Cracking," Corrosion, Vol. 10, pp. 413-19 (1954).
1044. Tsuchiya, A. and Y. Osawa, "Determination of Minute Amounts of Water in Petroleum Products by the Karl Fischer Method," Sekiyu Gokkai, Vol. 2, pp. 22-6 (1959).
1045. Turkevici, J. and L. A. Hiller, "Effect of Hydrocarbon Bacteria on Racemic Mixtures of Hydrocarbons," J. of Am. Chem. Soc., Vol. 6, pp. 530-1 (1946).

1046. Uhl, W. C. and E. E. Juterbock, "Petroleum," Annual Review, 1957 Ind. Eng. Chem. 50, No. 1, 44A-47A, 1958.
1047. Ulmer, R. C. and R. W. Wood, "Modern Fuel Oils and Application of Additives," Industry and Power 61, pp. 92-6, Oct., 1951; Fuel Abstr., No. 2, p. 135, 1952.
1048. Universal Oil Products Co., Riverside, Ill., Air Force Contract No., AF 18(600)-112, Change Order No. CF(55-1193), February 24, 1956; AD-87-905.
1049. Upadhyay, J. and J. L. Stokes, "Temperature Sensitive Formic Hydrogenlyase in a Psychrophilic Bacterium," J. Bacteriol., 85 : 177-185 (January, 1963).
1050. Updegraff, D. M., "Microbiological Corrosion of Iron and Steel," Corrosion - Nat'l Assn. of Corrosion Engrs., Vol. 11, pp. 442-445, Oct. 1955.
1051. Updegraff, D. M. and A. B. Huckabay, "A Rapid Microgas Analysis System for Carbon Dioxide, Oxygen, Hydrocarbon Gases and Hydrogen," Anal. Biochem. 5 (1), pp. 28-36, 1963.
1052. Updegraff, D. M. and G. B. Wren, "Release of Oil from Petroleum-Bearing Materials by Sulfate-Reducing Bacteria," Appl. Microbiol. 2, pp. 309-22, 1954.
1053. Upham, J. D., Process Utilizing Moving Solid Catalyst, U. S. Patent 2,459,474, Jan. 18, 1949 (to Phillips Petroleum Co.).
1054. Upham, J. D., Detector for Corrosion and Erosion of Reactors, Especially Hydrocarbon Converters, U. S. Patent 2,695,219, Nov. 23, 1945 (to Phillips Petroleum Co.).
1055. U. S. S. Plymouth Rock (L. S. D. 29) "Rubber Covered Plug Valves; Identification of," Final Report, Lab. Project No. 5753-1, 9 Aug. 1955, (Material Lab.) New York Shipyard, Brooklyn, N. Y.; AD-72-397.

1056. Van Der Linden, A. C. and G. J. E. Thijsses, "The Degradation of 2-Methylhexane by a Pseudomonas Strain," Bacteriol. Proc., pp. 43, 1961.
1057. Veselov, V. V., "Determination of the Number and Positions of the Methyl Groups in Paraffin Hydrocarbons," Khim. i Tekhnol. Topliv i Masel 4, No. 8, pp. 49-56, 1959.
1058. Vesely, J. A. and C. B. Linn, Removal of Organic Peroxides From Unsaturated Hydrocarbons, U. S. Patent 2,809,921, Oct. 15, 1957 (to Universal Oil Products Co.)
1059. Vigdergauz, M. S. et. al., "Analysis of Light Hydrocarbons by Molecular Sieves," Khim i Tekhnol. Topliv i Masel 6, No. 7, pp. 62-3, 1961.
1060. Vold, M. J., Corrosion Inhibitor for Lubricating Oil, U. S. Patent 2,528,257, Oct. 31, 1950 (to Union Oil Co. of California).
1061. Von Wolzogen Kuhr, C. A. H. and I. S. Van der Vlugt, "The Graphitization of Cast Iron as One Electromechanical Process in Anaerobic Soils," Water, 18, pp. 147-165, 1934.
1062. Vorob'yeva, G. I., "A Study of the Role of Bacteria of the Pseudomonas Type in Petroleum Microbiology," Dokl. Akad. Nauk. S.S.S.R. 112 (4), pp. 763-765, 1957.
1063. Voroshilova, A. A. and E. V. Dianova, "Petroleum-oxidizing Bacteria: Activity Indexes for Biological Oxidation of Crude Oil Under Natural Conditions," Mikrobiologiya 21, pp. 408-15, 1952.
1064. Vose, R. S., Process for Effecting the Propulsion of Rocket and Jet Engines, U. S. Patent 3,000,174, Sept. 19, 1961.

1065. Wachter, A., Corrosion-inhibition Coating and Application Thereof, British Patent 55,457, Aug. 24, 1943 (to Shell Development Co.).
1066. Wachter, A., Corrosion Inhibition in Catalytic Hydrocarbon Conversion, U. S. Patent 2,411,483, Nov. 19, 1946 (to Shell Development Co.).
1067. Wachter, A., Inhibiting Internal Corrosion of Ferrous Metal Containers Such as Pipe Lines in Contact With Light Petroleum Distillates Such as Gasoline, U. S. Patent 2,351,465, June 13, 1944 (to Shell Development Co.).
1068. Wagner, G., "The Mechanism of Oxidation and Thermal Decomposition Reactions of Hydrocarbons by Means of Mass Spectrometry," Forsch Gebiete Ingenieurw 26, 185-90 (1960).
1069. Waldrip, H. E., "Present Day Aspects of Condensate-well Corrosion," Corrosion 4, pp. 611-18, 1948.
1070. Wallace and Tiernan Products, Inc., Electrical Determination or Control of Amount of Oxidizing or Reducing Substance in Liquids, British Patent 562,538, July 6, 1944.
1071. Walter, R. B., "New Technique Combats Electrolysis," Oil Weekly 124, No. 10, pp. 18-21, 1947.
1072. Wang, Hsiu-YUAN and W. Schwartz, "Studies of the Microbiology of Petroleum and Petroleum products. IV Microbiological Examination of An Oil Field," Z. Allgem. Mikrobiol 1, pp. 223-44, 1961.
1073. Ward, C. B., "Corrosion Resulting From Microbial Fuel Tank Contamination," Materials Protection 2, pp. 10-12, 16, 1963.
1074. Wasserback, T. B., and J. J. Cranford, Method of Preventing Ice Formation and Filter Plugging in Jet Engine Fuel Systems, U.S. Patent 1,722,099, Nov. 1, 1955 (to Esso Research and Engineering Co.).
1075. Watkins, F. M., Prevention of Rust, U.S. Patent 2,594,266, Apr. 22, 1952 (to Sinclair Refining Co.).
1076. Wattenberg, L. W., and J. L. Leong, "Histochemical Demonstration of Reduced Pyridine nucleotide Dependent Polycyclic Hydrocarbon Metabolizing Systems," J. Histochem. and Cytochem. 10(4), p 412, 1962.
1077. Wayne, T. B., Petroleum Demulsifying Compounds, U.S. Patent 2,335,554, Nov. 30, 1943.
1078. Weber, G., "Plastic Tank Coatings Resist Sour West Texas Crude Oil Corrosion," Oil Gas J. 45, No. 7, pp. 89-90, 1946.
1079. Webley, D. M., and F. C. DeKock, "Metabolism of Some Saturated Aliphatic Hydrocarbons, Alcohols, and Fatty Acids by Proactinomyces opacus (*Nocardia opaca*)," Biochem. J. 51, pp. 371-5, 1952.

1080. Weil, B. H. and M. Sittig, The Literature of Raw Materials for Production of Chemicals From Petroleum and Natural Gas, Information Division, Research and Engineering Department, Ethyl Corp., Detroit, Mich. reference unknown
1081. Weingaertner, E., Separation and Fractionation of Hydrocarbon Homologs, German Patent 1,103,482, Aug. 29, 1959.
1082. Weisgerber, G. A. and J. O. Smith, Fr., Stabilized Fuel Oil Compositions, U.S. Patent 2,895,815, July 21, 1959. (to Esso Research and Engineering Co.).
1083. Wetzel, W., "Sediment Analysis by Luminescence Microscopy in the Investigation of Petroleum Deposits," Erdol V. Kohle, 13, pp. 541-544, 1960.
1084. Whaley, T. P., Preparation of Alkaline Earth Metal Alloys, U.S. Patent 2,849,309, Aug. 26, 1958 (to Ethyl Corp.).
1085. Wheeler, R. L., "The Design and Maintenance of Water Treating Plants for Secondary Recovery and Waste Disposal in California," Calif. Oil World 45, No. 13, pp. 4,6,8,10,12, 1952.
1086. Whitcomb, K. R. and E. E. Finch, Removing the Inner Coating From Aircraft Fuel Tanks, U.S. Patent 2,653,116 (to Ces-Chemical Co., Inc.).
1087. Whitham, B. T., "Use of Molecular Sieves in Gas Chromatography for Determination of Normal Paraffins in Petroleum Fractions," Nature 182, pp. 391-2, 1958.
1088. Wiebe, W. A. Ver, "Exploration for Oil and Gas in Western Kansas during 1946," Kansas State Geol. Survey, Bull. 68, 1947.
1089. Wiczroek, T. J., Brightening of Zinc Surfaces, U.S. Patent 2,433,723, Dec. 30, 1947.
1090. Wieland, E. R., Middle Distillate Fuels Containing Alkylene Polyamine Substituted Sulfonates, U.S. Patent 2,923,611, Feb. 2, 1960 (to Esso Research and Engineering Co.).
1091. Wieland, R. and R. S. Treseder, "Internal Corrosion in Domestic Fuel Oil Tanks," Corrosion 10, 401-6 (1954).
1092. Wies, C., et.al, Fuel Oil Composition, U.S. Patent 2,626,207, Jan. 20, 1953. (to Shell Development Co.).
1093. Wigleven, N. Y. J. H., Mixing Soap With Silical Acid-gel, Dutch Patent 56,339, June 15, 1944.

1094. Wilkinson, J. F., "The Extracellular Polysaccharides of Bacteria," Bact. Revs., 22, 46-73 (1958).
1095. Williams, A. G. G. and C. Huggins, "Oxidation of Reduced Pyridine Nucleotides in Mammary Gland and Adipose Tissue Following Treatment With Polynuclear Hydrocarbons," Med. Exptl. 4 (4), pp. 223-6, 1961.
1096. Wilson, J. G., "Microbial Growth in Fuels and Fuel Systems," Contamination Control, Vol. 2, No. 1, pp. 11-12, 1963.
1097. Wise, R. R. L., "Some Corrosion Inhibitors," Corrosion, 12, pp. 195T-197T, 1957.
1098. Wisknia, A., "The Solubility of Hydrocarbon Gases in Protein Solution," Proc. Natl Acad. Sci. 48(12), pp. 2200-2294, 1962.
1099. Wittetort, J. J., "A Survey of Gum-residue Test Methods for Fuel Resistant Synthetic Rubber Materials," ASTM Bull. No. 130, pp. 27-8, 1944.
1100. Wolf, R. F., Unvulcanized Elastomers Containing Silica, U. S. Patent 2,760,894, Aug. 28, 1956 (to Columbia Southern Chemical Corp.)
1101. Wolfson, L. L., "Microbiology in Secondary Recovery Systems," Corrosion, 16, pp. 298T-300T, 1960.
1102. Woodle, R. A. and W. B. Chandler, Jr., "Mechanism of Occurrence of Metals in Petroleum Distillates," Ind. Eng. Chem. 44, pp. 2591-6, 1952.
1103. Wright, R. H., and H. F. Hostetler, "Microbiological Diesel Fuel Contamination," Society of Automotive Engineers Publication, 651-B, Jan. 14-18, 1963.

1104. Yamate, S. M. Oyamada, and M. Kame, Concentrated Additives for Fuel Oil, Japan 8034('56), Sept. 15, (to Nippon Fats and Oils Co.).
1105. Yasnopol'skii, V. D., N. S. Murzina, S. Nikitina, and U. N. Sulermanova, "Contamination of Ash and of Suspended Matter in Petroleum Products," Sb. Tr., Inst. Oekhim Protsessov, Akad. Nauk Azerb. SSR 1959, No. 4, p. 13.
1106. Yasnopol'skii, V. D., I. E. Dolnakova, and A. S. Konyshcheva, "Determination of the Hydrocarbon - Group composition of Kerosine and Heating Oils," Azerbaidzhan Khim. Zhur. 1960, No. 3, 99-106 (in Russian).
1107. Yavorskaya, S. F., Cleansing Preparation, U.S.S.R. 67, 688, Dec. 31, 1946.
1108. Yuhara, Y., "Fuel Oil Problems," Shoseki Giho 4, 63-78 (1960)
1109. Yeager, C. C., "Microbial Problems in the Refining of Oil," (Sci. Oil Compounding Co., Inc. Chicago), Chem. Specialties Mfgs. Assoc. Proc. Ann. Meeting Dec. 1958; 45, pp. 120-123, 1959.
1110. Zabavin, V. I., "Oxidation of Oils, Tars, and Asphaltenes of Perm Petroleum, and Problems of Genesis of Asphaltic and Tarry Substances," Bull. Acad. Sci. U.S.S.R., classe sci. tech. 1943, No. 9/10, 57-67.
1111. Zhukhovitskii, A. A., M. S. Selenkina, and N. M. Turkel'taub, "The Identification of the Components of a Hydrocarbon Mixture," Khim. i Tekhnol. Topliv i Masel 5, No.11, 57-64 (1960).
1112. Zimina, K. I., "Application of Spectroscopic and Mass Spectroscopic Methods to the Analysis of Petroleum Products," Materialy Mezhdvuz. Soveshchaniya po Voprosam Novoi Tekh. v Neft. Prom. 2,3-17(1958).
1113. Zobachev, Yu. E., "Protection of Inner Surfaces of Tankers from Corrosion by Alloys on a Magnesium and Aluminum Basis," Zashchita Morsk. Sudov at Korrozii (Moscow Morskoi Transport) Sbornik 1958, 101-9.
1114. Zobell, C. E., "Assimilation of Hydrocarbons by Microorganisms" Advances in Enzymology, Vol. 10, pp 443-486 (1950).
1115. Zobell, C. E., "Action of Microorganisms of Hydrocarbons," Bacteriol Rev., Vol. 10, Nov. 1-2, March-June 1946.
1116. Zobell, C. E., "Effect of Bacterial Activity on Petroleum Hydrocarbons," J. of Bacteriol. 49:522 (1945)

1117. Zobell, C. E., "Functions of Bacteria in the Formation and Accumulation of Petroleum," Oil Weekly 120, No. 12,30,32, 33-4, 36 (1946).
1118. Zobell, C. E., "Part Played by Bacteria in Petroleum Formation," J. Sediment. Petrol. 22, 42-9 (1952).
1119. Zobell, C. E., and Sydney C. Rittenberg, "Sulfate-Reducing Bacteria in Marine Sediments," J. Marine Research (Sears Foundation) 7, 602-17 (1948).
1120. Zobell, C. E., "The Deterioration of Rubber Products by Micro-Organisms," Jour. American Water Works Assn., Vol. 36 No. 4, pp. 439-453, April 1944.
1121. Zobell, C. E., "The Occurrence, Effects, and Fate of Oil Polluting The Sea," Internat'l Conf. on Water Pollution Research. Church House, Westminster, London, S.W.I. 3-7 Sept. 1962.
1122. Zobell, C. E., "The Role of Bacteria in the Formation and Transformation of Petroleum Hydrocarbons," Science 102, 364-9 (1945).
1123. Zelov, V. N., "Methods of Estimating the Quality of Jet Fuels" Foreign Tech. (Div., AFSC, Wright-Patterson AF Base, Ohio, 17 p., 16 Feb. 1962. AD-273-404
1124. Zuidema, H. H., "Oxidation of Lubricating Oils," Chem. Reviews, Vol. 38, No. 2, April 1946.
1125. Zul'fugarly, D. I., "Trace Elements in Petroleum "Azertaidzhan. Gosudarst, Uni. im. S. M. Kirova, Ser. Khim. 1959, 141-79 (in Russian).